

物理的性質

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|------|---|------------------------------------|
| 1 | Auto-ignition temperature: [N1]° C [(P2)] | 発火温度: [N1]°C [(P2)] |
| 1-1 | P2: cadmium metal dust | カドミウム金属粉塵 |
| 1-2 | estimated | 概算 |
| 1-3 | explosion | 爆発 |
| 1-4 | powder | 粉末 |
| 2 | Boiling point: [N1]° C [(P2)] | 沸点: [N1]°C [(P2)] |
| 2-1 | P2: 25% | 25% |
| 2-2 | 70% | 70% |
| 2-3 | 90% | 90% |
| 2-4 | 40% solution | 40%溶液 |
| 2-5 | explodes | 爆発する |
| 2-6 | partially sublimes | 一部昇華する |
| 2-7 | sublimes | 昇華する |
| 3 | Decomposes at [N1]° C [(P2)] | [N1]°Cで[(P2)]分解する |
| 3-1 | P2: (amorphous) | (非晶質) |
| 3-2 | after 31 days | 31日後に |
| 3-3 | after 7 days | 7日後に |
| 3-4 | at 0.01 kPa | (0.01 kPa) |
| 3-5 | when heated | 加熱すると |
| 4 | Density [(P1)]: [N2] g/cm ³ | 密度 [(P1)]: [N2] g/cm ³ |
| 4-1 | P1: amorphous | 非晶質 |
| 4-2 | for liquid | 液体 |
| 4-3 | for the alpha hemihydrate | α-半水化物 |
| 4-4 | for the beta hemihydrate | β-半水化物 |
| 4-5 | solid | 固体 |
| 5 | Melting point: [N1]° C [(P1)], [N2]° C [(P2)] | 融点: [N1]°C [(P1)], [N2]°C [(P2)] |
| 5-1 | P1: m- | m- |
| 5-2 | p- | p- |
| 5-3 | pure | 純品 |
| 5-4 | trans | trans |
| 5-5 | P2: cis | cis |
| 5-6 | technical | 工業用 |
| 6 | Melting point: [N1]° C [(P2)] | 融点: [N1]°C [(P2)] |
| 6-1 | P2: alpha-form | α型 |
| 6-2 | beta-form | β型 |
| 6-3 | beta-sulfur | beta-sulfur |
| 6-4 | cis-isomer | シス-異性体 |
| 6-5 | monohydrate | 一水和物 |
| 6-6 | rapid heating | 急速に加熱 |
| 6-7 | r-sulfur | gamma-sulfur |
| 6-8 | trans-isomer | トランス-異性体 |
| 7 | Octanol/water partition coefficient as log Pow: [N1] [(P1)] | log Pow (オクタノール/水分係数): [N1] [(P1)] |
| 7-1 | P1: 20° C | 20°C |
| 7-2 | not explosive | 非爆発性 |
| 7-3 | pH-dependent | pH-依存性 |
| 7-4 | pyrethrin I | ピレトリン I |
| 7-5 | pyrethrin II | ピレトリン II |
| 8 | Relative density (water = 1): [N1] [(P2)] | 比重(水=1): [N1] [(P2)] |
| 8-1 | P2: 100° C | 100°C |
| 8-2 | 14% aqueous solution | 14%水溶液 |
| 8-3 | 15° C | 15°C |
| 8-4 | -190° C | -190°C |
| 8-5 | -21° C | -21°C |
| 8-6 | 22° C | 22°C |
| 8-7 | 25° C | 25°C |
| 8-8 | -25° C | -25°C |
| 8-9 | 26° C | 26°C |
| 8-10 | 30° C | 30°C |
| 8-11 | -33° C | -33°C |
| 8-12 | 40° C | 40°C |
| 8-13 | 45° C | 45°C |
| 8-14 | 47° C | 47°C |
| 8-15 | 5.5% aqueous solution | 5.5%水溶液 |
| 8-16 | 50% solution | 50%溶液 |
| 8-17 | 60° C | 60°C |
| 8-18 | 75° C | 75°C |
| 8-19 | -89° C | -89°C |
| 8-20 | amorph | 非晶質 |
| 8-21 | crude | 原石 |
| 8-22 | cryst | 結晶 |

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| 8-23 | expanded | 焼成 |
| 8-24 | hexahydrate | 六水和物 |
| 8-25 | liquid | 液体 |
| 8-26 | liquid at 4° C | 4°Cで液体 |
| 8-27 | liquid, 0° C | 液体、0°C |
| 8-28 | liquid, -10° C | 液体、-10°C |
| 8-29 | liquid, 20° C, 6.86 atm | 液体、20°C、6.86 atm |
| 9 | Solubility in water, g/100ml at [N2]° C: [N3] [(P4)] | 水への溶解度([N2]°C): [N3] g/100ml [(P4)] |
| 9-1 | P4: good | よく溶ける |
| 9-2 | good, trihydrate | 三水和物、よく溶ける |
| 9-3 | miscible | 混和する |
| 9-4 | reaction | 反応する |
| 10 | Solubility in water, g/l at [N2]° C: [N3] [(P4)] | 水への溶解度([N2]°C): [N3] g/l [(P4)] |
| 10-1 | P4: moderate | 溶ける |
| 10-2 | none | 溶けない |
| 11 | Solubility in water, mg/l at [N2]° C: [N3] [(P4)] | 水への溶解度([N2]°C): [N3] mg/l [(P4)] |
| 11-1 | P4: reacts slowly | 徐々に反応する |
| 11-2 | very poor | 非常に溶けにくい |
| 12 | Solubility in water, ml/100ml at [N2]° C: [N3] [(P4)] | 水への溶解度([N2]°C): [N3] ml/100ml [(P4)] |
| 12-1 | P4: poor | 溶けにくい |
| 12-2 | very good | 非常によく溶ける |
| 13 | Solubility in water at [N1]° C: [P2] | 水への溶解度([N1]°C): [P2] |
| 13-1 | P2: freely soluble, but decomposes in water | 自在に溶けるが分解する |
| 13-2 | hydrolyzes above 18° C | 18°C以上で加水分解する |
| 13-3 | hydrolyzes to hydrogen and boric acid | 水素とホウ素に加水分解する |
| 13-4 | insoluble | 不溶 |
| 13-5 | miscible, reaction | 混和する、反応する |
| 13-6 | moderate, slow reaction | 溶ける、徐々に反応する |
| 13-7 | none in cold water, poor in boiling water | 冷水に溶けない、沸騰水に溶けにくい |
| 13-8 | none, reaction | 溶けない、反応する |
| 13-9 | none, slowly decomposes | 溶けない、徐々に分解する |
| 13-10 | reaction, releasing heat | 熱を放出して反応する |
| 13-11 | slightly soluble in cold water, hydrolyzes in hot water | 冷水中でわずかに溶け、温水中で分解する |
| 13-12 | slow in cold water, evolution of formaldehyde | 冷水中で徐々に溶け、ホルムアルデヒドを発生する |
| 13-13 | slow reaction | 徐々に反応する |
| 13-14 | slowly hydrolyzes | 徐々に加水分解する |
| 13-15 | soluble | 可溶 |
| 13-16 | very soluble | 非常によく溶ける |
| 13-17 | violent reaction | 激しく反応する |
| 14 | Sublimation point: [N1]° C [(P2)] | 昇華点: [N1]°C [(P2)] |
| 14-1 | P2: crystals | 結晶 |
| 14-2 | decomposes | 分解する |
| 15 | Vapour pressure, kPa at [N2]° C: [N3] [(P4)] | 蒸気圧([N2]°C): [N3] kPa [(P4)] |
| 15-1 | P4: 0.53 mPa | 0.53 mPa |
| 15-2 | calculated | 計算値 |
| 16 | Vapour pressure, Pa at [N2]° C: [N3] [(P4)] | 蒸気圧([N2]°C): [N3] Pa [(P4)] |
| 16-1 | P4: negligible | ほとんどない |
| 16-2 | very low | 非常に低い |
| 17 | Vapour pressure: [P1] | 蒸気圧: [P1] |
| 17-1 | P1: 1.33 Pa | 1.33 Pa |
| 17-2 | negligible at room temperature | ほとんどない(室温) |
| 18 | Viscosity: [N1] [P2] at [N3]° C | 粘度: [N1][P2]([N3]°C) |
| 18-1 | P2: cP | cP |
| 18-2 | cSt | cSt |
| 18-3 | mm ² /s | mm ² /s |
| 18-4 | mPa | mPa |
| 18-5 | mPa/s | mPa/s |
| 18-6 | Pa/s | Pa/s |
| 18-7 | ps | ps |
| 20 | Auto-ignition temperature: see Notes | 発火温度: 「注」参照 |
| 21 | Boiling point at [N1]kPa: [N2]° C | 沸点([N1] kPa): [N2]°C |
| 22 | Boiling point at [N1]Pa: [N2]° C | 沸点([N1] Pa): [N2]°C |

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| 23 | Boiling point: No boiling point at normal pressure; decomposes at [N1]° C | 沸点: 常圧では沸点は存在しない; [N1]°Cで分解する |
| 24 | Boiling point: see Notes | 沸点: 「注」参照 |
| 25 | Decomposes: see Notes. | 分解: 「注」参照 |
| 26 | Density (at [N1]° C): [N2] g/cm ³ | 密度([N1]°C): [N2] g/cm ³ |
| 27 | Density (at [N1]° C): [N2] g/ml | 密度([N1]°C): [N2] g/ml |
| 28 | Density (at the boiling point of the liquid): [N2] kg/l | 密度 (液体の沸点において): [N2] kg/l |
| 29 | Density (bulk): [N2] g/m ³ | 密度 (かさ密度): [N2] g/m ³ |
| 30 | Density (gas): [N2] kg/m ³ | 密度 (気体): [N2] kg/m ³ |
| 31 | Density (vapour at 15° C): [N2] g/l | 密度 (15°Cで蒸気): [N2] g/l |
| 32 | Density: see Notes | 密度: 「注」参照 |
| 33 | Electrical conductivity: [N1] pS/m (at 30° C, IUCLID) | 導電率: [N1] pS/m (30°C、IUCLID) |
| 34 | Evaporation rate (n-butyl acetate = 1): [N1] | 蒸発速度(酢酸 n-ブチル = 1): [N1] |
| 35 | Explosive limits, vol% in air: [N1] (calculated) | 爆発限界(空气中): [N1] vol%(計算値) |
| 36 | Explosive limits, vol% in air: [N1] (estimated) | 爆発限界(空气中): [N1] vol%(概算) |
| 37 | Explosive limits, vol% in air: [N1] (thermal decomposition >250° C) | 爆発限界(空气中): [N1] vol%(250°Cを超えると熱分解) |
| 38 | Explosive limits, vol% in air: [N1] (at [N2]° C) | 爆発限界(空气中): [N1] vol% ([N2]°C) |
| 39 | Explosive limits, vol% in air: [N1] (at [N2]° C) - [N3] (at [N4]° C) | 爆発限界(空气中): [N1]([N2]°C)~[N3]([N4]°C) vol% |
| 40 | Explosive limits, vol% in air: see Notes | 爆発限界: 「注」参照 |
| 41 | Flash point: [N1]° C (technical grade) | 引火点: [N1]°C (工業用) |
| 42 | Flash point: [N1]° C c.c. (trihydrate) | 引火点: [N1]°C (c.c.) (三水和物) |
| 43 | Flash point: [N1]° C o.c. (mixed isomers) | 引火点: [N1]°C (o.c.) (異性体混合物) |
| 44 | Flash point: explodes at [N1]° C | 引火点: [N1]°Cで爆発する |
| 45 | Flash point: explodes in air at [N1]° C | 引火点: 空气中[N1]°Cで爆発する |
| 46 | Flash point: Flammable gas | 引火点: 引火性気体 |
| 47 | Flash point: not available | 引火点: データなし |
| 48 | Flash point: see Notes | 引火点: 「注」参照 |
| 49 | Heat of solution in water: 359 J/g (Strongly cools down when dissolved in water.) | 水への溶解熱: 359 J/g (水に溶けると、急速に冷える) |
| 50 | Melting point: No melting point; decomposes on heating ([N1]° C) | 融点: 融点は存在しない; 加熱すると分解する([N1]°C) |
| 51 | Melting point: not available | 融点: データなし |
| 52 | Melting point: see Notes | 融点: 「注」参照 |
| 53 | Melting point: softening point | 融点: 軟化点 |
| 54 | Melting point: sublimes | 融点: 昇華する |
| 55 | Minimum ignition energy: [N1]mJ | 最小発火エネルギー: [N1] mJ |
| 56 | Octanol/water partition coefficient as log Pow: [N1] (calculated) | log Pow (オクタノール/水分配係数): [N1](計算値) |
| 57 | Octanol/water partition coefficient as log Pow: [N1] (estimated) | log Pow (オクタノール/水分配係数): [N1](概算) |
| 58 | Relative density (water = 1): see Notes | 比重(水=1): 「注」参照 |
| 59 | Relative density of the vapour/air-mixture at [N1]° C (air = 1): [N2] | [N1]°Cでの蒸気/空気混合気体の相対密度(空気=1): [N2] |

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| 60 | Relative density of the vapour/air-mixture at 20° C (air = 1): see Notes | 20°Cでの蒸気/空気混合気体の相対密度(空気=1):「注」参照 |
| 61 | Relative vapour density (air = 1): [N1] (at boiling point) | 相対蒸気密度(空気=1):[N1] (沸点で) |
| 62 | See Notes. | 「注」参照 |
| 63 | Solubility in water: see Notes | 水への溶解度:「注」参照 |
| 64 | Sublimation | 昇華 |
| 65 | Sublimation point: see Notes | 昇華点:「注」参照 |
| 66 | Sublimes at room temperature | 室温で昇華する |
| 67 | Vapour pressure: see Notes | 蒸気圧:「注」参照 |
| 68 | Vapour pressure at [N1]° C: negligible | 蒸気圧([N1]°C):ほとんどない |