# 2-Butanone, oxime

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|---|---|
| **Other names:** | Butanone oxime |
| | Ethyl methyl ketone oxime |
| | Ethyl methyl ketoxime |
| | Methyl ethyl ketone oxime |
| | Methyl ethyl ketoxime |
| | MEK-Oxime |
| | USAF EK-906 |
| | Ethyl-methylketonoxim |
| | Skino No. 2 |
| | Troykyd anti-skin B |
| | USAF AM-3 |
| | 2-Butoxime |
| | Aron M 1 |
| | SKINO 2 |
| | Pentan-2-one,oxime |
| | Butan-2-one, oxime |
| | NSC 442 |
| **Inchi:** | InChI=1S/C4H9NO/c1-3-4(2)5-6/h6H,3H2,1-2H3 |
| **InchiKey:** | WHIVNJATOVLWBW-UHFFFAOYSA-N |
| **Formula:** | C4H9NO |
| **SMILES:** | CCC(C)=NO |
| **Mol. weight [g/mol]:** | 87.12 |
| **CAS:** | 96-29-7 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| chs | -2727.00 | kJ/mol | NIST Webbook |
| hf | -205.69 | kJ/mol | Joback Method |
| hfs | -151.00 | kJ/mol | NIST Webbook |
| hvap | 57.70 | kJ/mol | NIST Webbook |
| hvap | 59.10 ± 0.20 | kJ/mol | NIST Webbook |
| log10ws | -0.31 | | Crippen Method |
| logp | 1.246 | | Crippen Method |
| mcvol | 78.770 | ml/mol | McGowan Method |
| pc | 3857.88 | kPa | Joback Method |
| rinpol | 793.00 | | NIST Webbook |
| tb | 425.70 | K | NIST Webbook |

| | | | |
|---|---|---|---|
| tc | 645.80 | K | Joback Method |
| tf | 243.65 ± 0.50 | K | NIST Webbook |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| hvapt | 58.60 ± 0.20 | kJ/mol | 306.00 | NIST Webbook |
| hvapt | 53.70 | kJ/mol | 366.50 | NIST Webbook |
| hvapt | 55.50 | kJ/mol | 330.50 | NIST Webbook |
| hvapt | 57.20 | kJ/mol | 323.00 | NIST Webbook |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 332.70 | K | 2.00 | NIST Webbook |

# Sources

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Joback Method:** https://en.wikipedia.org/wiki/Joback_method
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C96297&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# Legend

**chs:** Standard solid enthalpy of combustion
**hf:** Enthalpy of formation at standard conditions
**hfs:** Solid phase enthalpy of formation at standard conditions
**hvap:** Enthalpy of vaporization at standard conditions
**hvapt:** Enthalpy of vaporization at a given temperature
**log10ws:** Log10 of Water solubility in mol/l

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|---|---|
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tbrp:** | Boiling point at reduced pressure |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |