# Ethane, hexabromo-

**Other names:** Hexabromoethane
**Inchi:** InChI=1S/C2Br6/c3-1(4,5)2(6,7)8
**InchiKey:** POJPQMDDRCILHJ-UHFFFAOYSA-N
**Formula:** C2Br6
**SMILES:** BrC(Br)(Br)C(Br)(Br)Br
**Mol. weight [g/mol]:** 503.44
**CAS:** 594-73-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 57.56 | kJ/mol | Joback Method |
| hf | 133.00 | kJ/mol | NIST Webbook |
| hfus | 17.82 | kJ/mol | Joback Method |
| hvap | 56.06 | kJ/mol | Joback Method |
| log10ws | -5.45 | | Crippen Method |
| logp | 4.663 | | Crippen Method |
| mcvol | 144.040 | ml/mol | McGowan Method |
| pc | 10896.05 | kPa | Joback Method |
| tb | 635.66 | K | Joback Method |
| tc | 955.52 | K | Joback Method |
| tf | 475.94 | K | Joback Method |
| vc | 0.497 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 176.53 | J/mol×K | 635.66 | Joback Method |
| cpg | 177.43 | J/mol×K | 902.21 | Joback Method |
| cpg | 177.20 | J/mol×K | 848.90 | Joback Method |
| cpg | 177.32 | J/mol×K | 795.59 | Joback Method |
| cpg | 177.46 | J/mol×K | 742.28 | Joback Method |
| cpg | 177.31 | J/mol×K | 688.97 | Joback Method |
| cpg | 178.35 | J/mol×K | 955.52 | Joback Method |
| dvisc | 0.0002329 | Pa×s | 635.66 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0002802 | Pa×s | 609.04 | Joback Method |
| dvisc | 0.0003428 | Pa×s | 582.42 | Joback Method |
| dvisc | 0.0004276 | Pa×s | 555.80 | Joback Method |
| dvisc | 0.0005454 | Pa×s | 529.18 | Joback Method |
| dvisc | 0.0007138 | Pa×s | 502.56 | Joback Method |
| dvisc | 0.0009628 | Pa×s | 475.94 | Joback Method |

# 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=C594730&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# Legend

**cpg:** Ideal gas heat capacity
**dvisc:** Dynamic viscosity
**gf:** Standard Gibbs free energy of formation
**hf:** Enthalpy of formation at standard conditions
**hfus:** Enthalpy of fusion at standard conditions
**hvap:** Enthalpy of vaporization at standard conditions
**log10ws:** Log10 of Water solubility in mol/l
**logp:** Octanol/Water partition coefficient
**mcvol:** McGowan's characteristic volume
**pc:** Critical Pressure
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume

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