# P-bromo diphenylbromomethane

**Inchi:** InChI=1S/C13H10Br2/c14-12-8-6-11(7-9-12)13(15)10-4-2-1-3-5-10/h1-9,13H
**InchiKey:** XQJCFOOAJAADSR-UHFFFAOYSA-N
**Formula:** C13H10Br2
**SMILES:** Brc1ccc(C(Br)c2ccccc2)cc1
**Mol. weight [g/mol]:** 326.03
**CAS:** 18066-89-2

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 299.97 | kJ/mol | Joback Method |
| hf | 197.32 | kJ/mol | Joback Method |
| hfus | 24.17 | kJ/mol | Joback Method |
| hvap | 62.23 | kJ/mol | Joback Method |
| log10ws | -5.63 | | Crippen Method |
| logp | 4.933 | | Crippen Method |
| mcvol | 181.510 | ml/mol | McGowan Method |
| pc | 3572.80 | kPa | Joback Method |
| tb | 687.06 | K | Joback Method |
| tc | 964.15 | K | Joback Method |
| tf | 406.23 | K | Joback Method |
| vc | 0.665 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 398.27 | J/mol×K | 687.06 | Joback Method |
| cpg | 454.08 | J/mol×K | 917.97 | Joback Method |
| cpg | 444.94 | J/mol×K | 871.79 | Joback Method |
| cpg | 434.93 | J/mol×K | 825.61 | Joback Method |
| cpg | 423.91 | J/mol×K | 779.42 | Joback Method |
| cpg | 411.73 | J/mol×K | 733.24 | Joback Method |
| cpg | 462.49 | J/mol×K | 964.15 | Joback Method |
| dvisc | 0.0001591 | Pa×s | 687.06 | Joback Method |
| dvisc | 0.0002002 | Pa×s | 640.25 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0002611 | Pa×s | 593.45 | Joback Method |
| dvisc | 0.0003565 | Pa×s | 546.64 | Joback Method |
| dvisc | 0.0005159 | Pa×s | 499.84 | Joback Method |
| dvisc | 0.0008058 | Pa×s | 453.04 | Joback Method |
| dvisc | 0.0013948 | Pa×s | 406.23 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C18066892&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

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|---|---|
| **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 |