

# Methane, bromodiiodo-

<b>Other names:</b>	Bromodiodomethane
<b>Inchi:</b>	InChI=1S/CHBrI2/c2-1(3)4/h1H
<b>InchiKey:</b>	PTGIGXMFLYACDM-UHFFFAOYSA-N
<b>Formula:</b>	CHBrI2
<b>SMILES:</b>	BrC(I)I
<b>Mol. weight [g/mol]:</b>	346.73
<b>CAS:</b>	557-95-9

## Physical Properties

Property code	Value	Unit	Source
gf	85.66	kJ/mol	Joback Method
hf	110.82	kJ/mol	Joback Method
hfus	8.92	kJ/mol	Joback Method
hvap	42.61	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	2.535		Crippen Method
mcvol	94.090	ml/mol	McGowan Method
pc	6093.99	kPa	Joback Method
tb	474.28	K	Joback Method
tc	760.17	K	Joback Method
tf	261.95	K	Joback Method
vc	0.324	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	88.53	J/molxK	474.28	Joback Method
cpg	90.38	J/molxK	521.93	Joback Method
cpg	91.83	J/molxK	569.58	Joback Method
cpg	92.95	J/molxK	617.23	Joback Method
cpg	93.80	J/molxK	664.88	Joback Method
cpg	94.48	J/molxK	712.53	Joback Method
cpg	95.05	J/molxK	760.17	Joback Method
dvisc	0.0057262	Paxs	261.95	Joback Method

dvisc	0.0029793	Paxs	297.34	Joback Method
dvisc	0.0017812	Paxs	332.73	Joback Method
dvisc	0.0011756	Paxs	368.12	Joback Method
dvisc	0.0008346	Paxs	403.50	Joback Method
dvisc	0.0006261	Paxs	438.89	Joback Method
dvisc	0.0004903	Paxs	474.28	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C557959&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C557959&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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