

# Pentabromoethane

<b>Other names:</b>	Ethane, pentabromo-
<b>Inchi:</b>	InChI=1S/C2HBr5/c3-1(4)2(5,6)7/h1H
<b>InchiKey:</b>	OGVPXEPSTZMAFF-UHFFFAOYSA-N
<b>Formula:</b>	C2HBr5
<b>SMILES:</b>	BrC(Br)C(Br)(Br)Br
<b>Mol. weight [g/mol]:</b>	424.55
<b>CAS:</b>	75-95-6

## Physical Properties

Property code	Value	Unit	Source
gf	37.96	kJ/mol	Joback Method
hf	33.01	kJ/mol	Joback Method
hfus	16.42	kJ/mol	Joback Method
hvap	50.54	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	3.941		Crippen Method
mcvol	126.540	ml/mol	McGowan Method
pc	9281.22	kPa	Joback Method
tb	572.29	K	Joback Method
tc	863.92	K	Joback Method
tf	398.72	K	Joback Method
vc	0.441	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	157.08	J/molxK	572.29	Joback Method
cpg	164.77	J/molxK	815.31	Joback Method
cpg	163.88	J/molxK	766.71	Joback Method
cpg	162.84	J/molxK	718.10	Joback Method
cpg	161.48	J/molxK	669.50	Joback Method
cpg	159.62	J/molxK	620.89	Joback Method
cpg	165.68	J/molxK	863.92	Joback Method
dvisc	0.0003351	Paxs	572.29	Joback Method

dvisc	0.0004113	Paxs	543.36	Joback Method
dvisc	0.0005165	Paxs	514.43	Joback Method
dvisc	0.0006665	Paxs	485.50	Joback Method
dvisc	0.0008882	Paxs	456.58	Joback Method
dvisc	0.0012307	Paxs	427.65	Joback Method
dvisc	0.0017878	Paxs	398.72	Joback Method

## Sources

<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=C75956&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C75956&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</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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