

# Ethylene, 1,1-dibromo-

<b>Other names:</b>	1,1-dibromoethylene Ethene, 1,1-dibromo-
<b>Inchi:</b>	InChI=1S/C2H2Br2/c1-2(3)4/h1H2
<b>InchiKey:</b>	IWHJPYXAFGKABF-UHFFFAOYSA-N
<b>Formula:</b>	C2H2Br2
<b>SMILES:</b>	C=C(Br)Br
<b>Mol. weight [g/mol]:</b>	185.84
<b>CAS:</b>	593-92-0

## Physical Properties

Property code	Value	Unit	Source
gf	73.89	kJ/mol	Joback Method
hf	83.69	kJ/mol	Joback Method
hfus	8.92	kJ/mol	Joback Method
hvap	32.33	kJ/mol	Joback Method
ie	9.78	eV	NIST Webbook
log10ws	-2.37		Crippen Method
logp	2.247		Crippen Method
mcvol	69.740	ml/mol	McGowan Method
pc	6663.89	kPa	Joback Method
tb	365.20	K	NIST Webbook
tc	594.28	K	Joback Method
tf	216.18	K	Joback Method
vc	0.254	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	78.15	J/molxK	374.04	Joback Method
cpg	81.74	J/molxK	410.75	Joback Method
cpg	84.98	J/molxK	447.45	Joback Method
cpg	87.90	J/molxK	484.16	Joback Method
cpg	90.53	J/molxK	520.86	Joback Method
cpg	92.90	J/molxK	557.57	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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=C593920&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C593920&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 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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