

# Ethane, 2-bromo-1,1-difluoro-

<b>Other names:</b>	2-Bromo-1,1-difluoroethane
<b>Inchi:</b>	InChI=1S/C2H3BrF2/c3-1-2(4)5/h2H,1H2
<b>InchiKey:</b>	JVYROUWXXSWCMI-UHFFFAOYSA-N
<b>Formula:</b>	C2H3BrF2
<b>SMILES:</b>	FC(F)CBr
<b>Mol. weight [g/mol]:</b>	144.95
<b>CAS:</b>	359-07-9

## Physical Properties

Property code	Value	Unit	Source
gf	-411.78	kJ/mol	Joback Method
hf	-455.78	kJ/mol	Joback Method
hfus	8.86	kJ/mol	Joback Method
hvap	24.46	kJ/mol	Joback Method
log10ws	-1.41		Crippen Method
logp	1.646		Crippen Method
mcvol	60.080	ml/mol	McGowan Method
pc	4938.44	kPa	Joback Method
tb	330.40	K	NIST Webbook
tc	478.01	K	Joback Method
tf	158.28	K	Joback Method
vc	0.239	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	83.95	J/mol×K	309.42	Joback Method
cpg	88.31	J/mol×K	337.52	Joback Method
cpg	92.46	J/mol×K	365.62	Joback Method
cpg	96.40	J/mol×K	393.71	Joback Method
cpg	100.14	J/mol×K	421.81	Joback Method
cpg	103.69	J/mol×K	449.91	Joback Method
cpg	107.07	J/mol×K	478.01	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>KDB:</b>	<a href="https://www.cheric.org/files/research/kdb/mol/mol1563.mol">https://www.cheric.org/files/research/kdb/mol/mol1563.mol</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=C359079&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C359079&amp;Units=SI</a>
<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>

# 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>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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