

# Benzene, 1,2-dichloro-3-fluoro-

<b>Inchi:</b>	InChI=1S/C6H3Cl2F/c7-4-2-1-3-5(9)6(4)8/h1-3H
<b>InchiKey:</b>	NPXCSDPOOVOVDQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H3Cl2F
<b>SMILES:</b>	Fc1cccc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	164.99
<b>CAS:</b>	36556-50-0

## Physical Properties

Property code	Value	Unit	Source
gf	-125.88	kJ/mol	Joback Method
hf	-181.17	kJ/mol	Joback Method
hfus	16.03	kJ/mol	Joback Method
hvap	40.50	kJ/mol	Joback Method
ie	9.29 ± 0.02	eV	NIST Webbook
log10ws	-3.17		Crippen Method
logp	3.132		Crippen Method
mcvol	97.890	ml/mol	McGowan Method
pc	3848.31	kPa	Joback Method
tb	447.45	K	Joback Method
tc	667.64	K	Joback Method
tf	269.27	K	Joback Method
vc	0.380	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	157.45	J/molxK	447.45	Joback Method
cpg	164.82	J/molxK	484.15	Joback Method
cpg	171.73	J/molxK	520.85	Joback Method
cpg	178.19	J/molxK	557.55	Joback Method
cpg	184.23	J/molxK	594.25	Joback Method
cpg	189.87	J/molxK	630.94	Joback Method
cpg	195.11	J/molxK	667.64	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=C36556500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C36556500&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>

# 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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