

# Benzene, 1-fluoro-3-(phenylmethyl)-

<b>Inchi:</b>	InChI=1S/C13H11F/c14-13-8-4-7-12(10-13)9-11-5-2-1-3-6-11/h1-8,10H,9H2
<b>InchiKey:</b>	QAJVVMNLYVCJCO-UHFFFAOYSA-N
<b>Formula:</b>	C13H11F
<b>SMILES:</b>	Fc1cccc(Cc2ccccc2)c1
<b>Mol. weight [g/mol]:</b>	186.22
<b>CAS:</b>	1496-00-0

## Physical Properties

Property code	Value	Unit	Source
gf	78.96	kJ/mol	Joback Method
hf	-46.17	kJ/mol	Joback Method
hfus	20.20	kJ/mol	Joback Method
hvap	48.93	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	3.417		Crippen Method
mcvol	148.280	ml/mol	McGowan Method
pc	2878.12	kPa	Joback Method
tb	554.45	K	Joback Method
tc	787.52	K	Joback Method
tf	302.22	K	Joback Method
vc	0.566	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.72	J/molxK	554.45	Joback Method
cpg	348.60	J/molxK	593.30	Joback Method
cpg	363.31	J/molxK	632.14	Joback Method
cpg	376.93	J/molxK	670.99	Joback Method
cpg	389.52	J/molxK	709.83	Joback Method
cpg	401.13	J/molxK	748.68	Joback Method
cpg	411.84	J/molxK	787.52	Joback Method

# Sources

<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=C1496000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1496000&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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

Latest version available from:

<https://www.chemeo.com/cid/69-968-2/Benzene-1-fluoro-3-phenylmethyl.pdf>

Generated by Cheméo on 2024-04-19 22:23:55.85720372 +0000 UTC m=+15854684.777781035.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.