2-Fluorobenzyl alcohol

Other names: o-Fluorobenzyl alcohol
Benzenemethanol, 2-fluoro-
2-fluorobenzylic alcohol
Inchi: InChI=1S/C7H7FO/c8-7-4-2-1-3-6(7)5-9/h1-4,9H,5H2
InchiKey: QEHXDOJPVIHUDO-UHFFFAOYSA-N
Formula: C7H7FO
SMILES: OCc1ccccc1F
Mol. weight [g/mol]: 126.13
CAS: 446-51-5

Physical Properties

Property code	Value	Unit	Source
gf	-220.79	kJ/mol	Joback Method
hf	-311.09	kJ/mol	Joback Method
hfus	14.71	kJ/mol	Joback Method
hvap	49.98	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	1.318		Crippen Method
mcvol	93.370	ml/mol	McGowan Method
pc	4288.66	kPa	Joback Method
tb	472.50 ± 0.50	K	NIST Webbook
tc	673.82	K	Joback Method
tf	269.00	K	Joback Method
vc	0.356	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.60	J/mol×K	482.67	Joback Method
cpg	199.36	J/mol×K	514.53	Joback Method
cpg	207.65	J/mol×K	546.39	Joback Method
cpg	215.49	J/mol×K	578.25	Joback Method
cpg	222.89	J/mol×K	610.10	Joback Method
cpg	229.87	J/mol×K	641.96	Joback Method

cpg	236.44	J/mol×K	673.82	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C446515&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume