

(4-Fluorophenyl) methanol, 1-methylpropyl ether

Inchi:	InChI=1S/C11H15FO/c1-3-9(2)13-8-10-4-6-11(12)7-5-10/h4-7,9H,3,8H2,1-2H3
InchiKey:	LWMBUMVYINCYAB-UHFFFAOYSA-N
Formula:	C11H15FO
SMILES:	CCC(C)OCc1ccc(F)cc1
Mol. weight [g/mol]:	182.23

Physical Properties

Property code	Value	Unit	Source
gf	-157.73	kJ/mol	Joback Method
hf	-378.92	kJ/mol	Joback Method
hfus	18.64	kJ/mol	Joback Method
hvap	44.22	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.141		Crippen Method
mcvol	149.730	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
rinsol	1218.00		NIST Webbook
tb	503.99	K	Joback Method
tc	699.78	K	Joback Method
tf	260.49	K	Joback Method
vc	0.574	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.52	J/mol×K	503.99	Joback Method
cpg	349.42	J/mol×K	536.62	Joback Method
cpg	363.62	J/mol×K	569.25	Joback Method
cpg	377.12	J/mol×K	601.89	Joback Method
cpg	389.93	J/mol×K	634.52	Joback Method
cpg	402.09	J/mol×K	667.15	Joback Method
cpg	413.58	J/mol×K	699.78	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=U374639&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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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