2,3,4,5-Tetrafluorobenzyl alcohol, ethyl ether

Inchi: InChI=1S/C9H8F4O/c1-2-14-4-5-3-6(10)8(12)9(13)7(5)11/h3H,2,4H2,1H3
InchiKey: HYYCOUHLYBTLGZ-UHFFFAOYSA-N
Formula: C9H8F4O
SMILES: CCOCc1cc(F)c(F)c(F)c1F
Mol. weight [g/mol]: 208.15

Physical Properties

Property code	Value	Unit	Source
gf	-785.45	kJ/mol	Joback Method
hf	-955.10	kJ/mol	Joback Method
hfus	25.06	kJ/mol	Joback Method
hvap	39.69	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	2.780		Crippen Method
mcvol	126.860	ml/mol	McGowan Method
pc	2480.12	kPa	Joback Method
rinpol	1042.00		NIST Webbook
tb	471.42	K	Joback Method
tc	643.24	K	Joback Method
tf	292.28	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.91	J/mol×K	471.42	Joback Method
cpg	283.66	J/mol×K	500.06	Joback Method
cpg	293.07	J/mol×K	528.69	Joback Method
cpg	302.16	J/mol×K	557.33	Joback Method
cpg	310.92	J/mol×K	585.97	Joback Method
cpg	319.34	J/mol×K	614.61	Joback Method
cpg	327.43	J/mol×K	643.24	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=U375300&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume