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

Inchi: InChI=1S/C10H10F4O/c1-5(2)15-4-6-3-7(11)9(13)10(14)8(6)12/h3,5H,4H2,1-2H3
InchiKey: WBUIJBZHNOYIBK-UHFFFAOYSA-N
Formula: C10H10F4O
SMILES: CC(C)OCc1cc(F)c(F)c(F)c1F
Mol. weight [g/mol]: 222.18

Physical Properties

Property code	Value	Unit	Source
gf	-779.47	kJ/mol	Joback Method
hf	-981.02	kJ/mol	Joback Method
hfus	24.13	kJ/mol	Joback Method
hvap	41.53	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.168		Crippen Method
mcvol	140.950	ml/mol	McGowan Method
pc	2276.24	kPa	Joback Method
rinpol	1087.00		NIST Webbook
rinpol	1087.00		NIST Webbook
tb	493.86	K	Joback Method
tc	667.86	K	Joback Method
tf	288.55	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.15	J/mol×K	493.86	Joback Method
cpg	327.24	J/mol×K	522.86	Joback Method
cpg	337.92	J/mol×K	551.86	Joback Method
cpg	348.21	J/mol×K	580.86	Joback Method
cpg	358.09	J/mol×K	609.86	Joback Method
cpg	367.56	J/mol×K	638.86	Joback Method
cpg	376.64	J/mol×K	667.86	Joback Method

Sources

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=U375298&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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