

2,5-Difluorobenzoic acid, heptyl ester

Inchi:	InChI=1S/C14H18F2O2/c1-2-3-4-5-6-9-18-14(17)12-10-11(15)7-8-13(12)16/h7-8,10H,2-6
InchiKey:	QIOKFGIZFSRVN-UHFFFAOYSA-N
Formula:	C14H18F2O2
SMILES:	CCCCCCCOC(=O)c1cc(F)ccc1F
Mol. weight [g/mol]:	256.29

Physical Properties

Property code	Value	Unit	Source
gf	-463.39	kJ/mol	Joback Method
hf	-755.72	kJ/mol	Joback Method
hfus	34.23	kJ/mol	Joback Method
hvap	57.88	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	4.092		Crippen Method
mcvol	195.340	ml/mol	McGowan Method
pc	1882.17	kPa	Joback Method
rinpola	1675.00		NIST Webbook
rinpola	1675.00		NIST Webbook
tb	631.19	K	Joback Method
tc	817.08	K	Joback Method
tf	372.34	K	Joback Method
vc	0.771	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.59	J/molxK	631.19	Joback Method
cpg	524.18	J/molxK	662.17	Joback Method
cpg	538.04	J/molxK	693.15	Joback Method
cpg	551.17	J/molxK	724.13	Joback Method
cpg	563.60	J/molxK	755.12	Joback Method
cpg	575.34	J/molxK	786.10	Joback Method
cpg	586.41	J/molxK	817.08	Joback Method

Sources

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=U338806&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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