

Succinic acid, 2-chloro-6-fluorophenyl 2,2,3,4,4,4-hexafluorobutyl ester

Inchi:	InChI=1S/C14H10ClF7O4/c15-7-2-1-3-8(16)11(7)26-10(24)5-4-9(23)25-6-13(18,19)12(17)
InchiKey:	NAHHMBVLBJQYFA-UHFFFAOYSA-N
Formula:	C14H10ClF7O4
SMILES:	O=C(CCC(=O)Oc1c(F)cccc1Cl)OCC(F)(F)C(F)C(F)(F)F
Mol. weight [g/mol]:	410.67

Physical Properties

Property code	Value	Unit	Source
gf	-1680.05	kJ/mol	Joback Method
hf	-2019.59	kJ/mol	Joback Method
hfus	38.26	kJ/mol	Joback Method
hvap	64.36	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	4.244		Crippen Method
mcvol	223.870	ml/mol	McGowan Method
pc	1632.49	kPa	Joback Method
rinpol	1781.00		NIST Webbook
rinpol	1781.00		NIST Webbook
tb	734.36	K	Joback Method
tc	918.27	K	Joback Method
tf	467.21	K	Joback Method
vc	0.906	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.18	J/molxK	734.36	Joback Method
cpg	635.71	J/molxK	765.01	Joback Method
cpg	645.46	J/molxK	795.66	Joback Method
cpg	654.48	J/molxK	826.31	Joback Method
cpg	662.79	J/molxK	856.96	Joback Method
cpg	670.43	J/molxK	887.62	Joback Method
cpg	677.44	J/molxK	918.27	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390807&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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