

Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2-isopropoxyphenyl ester

Inchi: InChI=1S/C18H18F8O5/c1-10(2)30-11-5-3-4-6-12(11)31-14(28)8-7-13(27)29-9-16(21,22)
InchiKey: TXDRSTGFOJNVIM-UHFFFAOYSA-N
Formula: C18H18F8O5
SMILES: CC(C)Oc1ccccc1OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]: 466.32

Physical Properties

Property code	Value	Unit	Source
gf	-1924.22	kJ/mol	Joback Method
hf	-2417.30	kJ/mol	Joback Method
hfus	38.14	kJ/mol	Joback Method
hvap	68.12	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	4.874		Crippen Method
mvol	275.630	ml/mol	McGowan Method
pc	1238.09	kPa	Joback Method
rinpol	1980.00		NIST Webbook
rinpol	1980.00		NIST Webbook
tb	801.49	K	Joback Method
tc	986.85	K	Joback Method
tf	480.09	K	Joback Method
vc	1.101	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	855.77	J/mol×K	801.49	Joback Method
cpg	868.47	J/mol×K	832.38	Joback Method
cpg	880.22	J/mol×K	863.28	Joback Method
cpg	891.05	J/mol×K	894.17	Joback Method
cpg	901.03	J/mol×K	925.06	Joback Method
cpg	910.21	J/mol×K	955.96	Joback Method
cpg	918.62	J/mol×K	986.85	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=U389785&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{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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