

Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl dec-4-en-1-yl ester

Inchi:	InChI=1S/C19H26F8O4/c1-2-3-4-5-6-7-8-9-12-30-14(28)10-11-15(29)31-13-17(22,23)19
InchiKey:	CLJSAYXXWBBWGJ-VOTSOKGWSA-N
Formula:	C19H26F8O4
SMILES:	CCCCC=CCCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]:	470.39

Physical Properties

Property code	Value	Unit	Source
gf	-1830.92	kJ/mol	Joback Method
hf	-2408.28	kJ/mol	Joback Method
hfus	49.62	kJ/mol	Joback Method
hvap	65.35	kJ/mol	Joback Method
log10ws	-6.61		Crippen Method
logp	5.941		Crippen Method
mcvol	303.310	ml/mol	McGowan Method
pc	980.85	kPa	Joback Method
rinpol	2006.00		NIST Webbook
rinpol	2006.00		NIST Webbook
tb	774.89	K	Joback Method
tc	949.09	K	Joback Method
tf	440.11	K	Joback Method
vc	1.232	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	949.28	J/molxK	774.89	Joback Method
cpg	964.34	J/molxK	803.92	Joback Method
cpg	978.51	J/molxK	832.96	Joback Method
cpg	991.85	J/molxK	861.99	Joback Method
cpg	1004.39	J/molxK	891.02	Joback Method
cpg	1016.22	J/molxK	920.06	Joback Method
cpg	1027.38	J/molxK	949.09	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391168&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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