

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

Inchi:InChI=1S/C16H20F8O4/c17-13(18)15(21,22)16(23,24)14(19,20)9-28-12(26)7-6-11(25)27

InchiKey:DRPINTXOCBJCNJ-UHFFFAOYSA-N

Formula:C16H20F8O4

SMILES:O=C(CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F)OCC1CCCCC1

Mol. weight [g/mol]:428.31

Physical Properties

Property code	Value	Unit	Source
gf	-1911.95	kJ/mol	Joback Method
hf	-2409.26	kJ/mol	Joback Method
hfus	33.48	kJ/mol	Joback Method
hvap	59.14	kJ/mol	Joback Method
log10ws	-5.15		Crippen Method
logp	4.604		Crippen Method
mcvol	254.480	ml/mol	McGowan Method
pc	1320.39	kPa	Joback Method
rinpol	1814.00		NIST Webbook
rinpol	1814.00		NIST Webbook
tb	721.64	K	Joback Method
tc	896.73	K	Joback Method
tf	418.76	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	797.24	J/molxK	721.64	Joback Method
cpg	812.50	J/molxK	750.82	Joback Method
cpg	826.74	J/molxK	780.00	Joback Method
cpg	840.01	J/molxK	809.18	Joback Method
cpg	852.37	J/molxK	838.36	Joback Method
cpg	863.86	J/molxK	867.54	Joback Method
cpg	874.53	J/molxK	896.73	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390705&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390705&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rlnol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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