

# Terephthalic acid, heptyl 2,2,3,4,4,4-hexafluorobutyl ester

<b>Inchi:</b>	InChI=1S/C19H22F6O4/c1-2-3-4-5-6-11-28-15(26)13-7-9-14(10-8-13)16(27)29-12-18(21
<b>InchiKey:</b>	DHUCEWFZXGWHCK-UHFFFAOYSA-N
<b>Formula:</b>	C19H22F6O4
<b>SMILES:</b>	CCCCCCCOC(=O)c1ccc(C(=O)OCC(F)(F)C(F)C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	428.37

## Physical Properties

Property code	Value	Unit	Source
gf	-1421.58	kJ/mol	Joback Method
hf	-1899.47	kJ/mol	Joback Method
hfus	44.32	kJ/mol	Joback Method
hvap	71.26	kJ/mol	Joback Method
log10ws	-6.67		Crippen Method
logp	5.506		Crippen Method
mcvol	280.310	ml/mol	McGowan Method
pc	1224.27	kPa	Joback Method
rinpol	2325.00		NIST Webbook
tb	807.08	K	Joback Method
tc	993.83	K	Joback Method
tf	480.53	K	Joback Method
vc	1.119	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	867.29	J/molxK	807.08	Joback Method
cpg	881.16	J/molxK	838.21	Joback Method
cpg	894.07	J/molxK	869.33	Joback Method
cpg	906.08	J/molxK	900.46	Joback Method
cpg	917.22	J/molxK	931.58	Joback Method
cpg	927.55	J/molxK	962.71	Joback Method
cpg	937.12	J/molxK	993.83	Joback Method

# Sources

<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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>
<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=U415754&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415754&amp;Units=SI</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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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