

# Terephthalic acid, hexyl 2,2,3,3,3-pentafluoropropyl ester

<b>Inchi:</b>	InChI=1S/C17H19F5O4/c1-2-3-4-5-10-25-14(23)12-6-8-13(9-7-12)15(24)26-11-16(18,19
<b>InchiKey:</b>	SXYABEMETNGUAK-UHFFFAOYSA-N
<b>Formula:</b>	C17H19F5O4
<b>SMILES:</b>	CCCCCOC(=O)c1ccc(C(=O)OCC(F)(F)C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	382.32

## Physical Properties

Property code	Value	Unit	Source
gf	-1241.17	kJ/mol	Joback Method
hf	-1656.80	kJ/mol	Joback Method
hfus	39.58	kJ/mol	Joback Method
hvap	68.01	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	4.778		Crippen Method
mvol	250.360	ml/mol	McGowan Method
pc	1446.83	kPa	Joback Method
rinpol	1992.00		NIST Webbook
rinpol	1992.00		NIST Webbook
tb	762.49	K	Joback Method
tc	948.89	K	Joback Method
tf	472.40	K	Joback Method
vc	0.996	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	746.53	J/molxK	762.49	Joback Method
cpg	759.95	J/molxK	793.56	Joback Method
cpg	772.47	J/molxK	824.62	Joback Method
cpg	784.12	J/molxK	855.69	Joback Method
cpg	794.95	J/molxK	886.76	Joback Method
cpg	805.00	J/molxK	917.83	Joback Method
cpg	814.31	J/molxK	948.89	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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=U415777&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415777&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>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>rinpola:</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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