

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

<b>Inchi:</b>	InChI=1S/C23H30F6O4/c1-2-3-4-5-6-7-8-9-10-15-32-19(30)17-11-13-18(14-12-17)20(31
<b>InchiKey:</b>	GITHLSUDMPWXIN-UHFFFAOYSA-N
<b>Formula:</b>	C23H30F6O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)c1ccc(C(=O)OCC(F)(F)C(F)C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	484.47

## Physical Properties

Property code	Value	Unit	Source
gf	-1387.90	kJ/mol	Joback Method
hf	-1982.03	kJ/mol	Joback Method
hfus	54.68	kJ/mol	Joback Method
hvap	80.16	kJ/mol	Joback Method
log10ws	-8.34		Crippen Method
logp	7.067		Crippen Method
mcvol	336.670	ml/mol	McGowan Method
pc	951.42	kPa	Joback Method
rinpol	1648.00		NIST Webbook
rinpol	1648.00		NIST Webbook
tb	898.60	K	Joback Method
tc	1100.20	K	Joback Method
tf	525.61	K	Joback Method
vc	1.343	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1102.05	J/mol×K	898.60	Joback Method
cpg	1117.50	J/mol×K	932.20	Joback Method
cpg	1131.82	J/mol×K	965.80	Joback Method
cpg	1145.06	J/mol×K	999.40	Joback Method
cpg	1157.32	J/mol×K	1033.00	Joback Method
cpg	1168.64	J/mol×K	1066.60	Joback Method
cpg	1179.12	J/mol×K	1100.20	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.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>
<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=U415758&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415758&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>hvp:</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>rinp:</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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