

# 1,2-Cyclohexanedicarboxylic acid, pentafluorobenzyl tetradecyl ester

Inchi:	InChI=1S/C29H41F5O4/c1-2-3-4-5-6-7-8-9-10-11-12-15-18-37-28(35)20-16-13-14-17-21
InchiKey:	SNYIBGQVLPRLZ-UHFFFAOYSA-N
Formula:	C29H41F5O4
SMILES:	CCCCCCCCCCCCCOC(=O)C1CCCC1C(=O)OCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	548.63

## Physical Properties

Property code	Value	Unit	Source
gf	-1167.59	kJ/mol	Joback Method
hf	-1898.88	kJ/mol	Joback Method
hfus	76.84	kJ/mol	Joback Method
hvap	100.08	kJ/mol	Joback Method
log10ws	-10.35		Crippen Method
logp	8.476		Crippen Method
mcvol	408.580	ml/mol	McGowan Method
pc	727.70	kPa	Joback Method
rinpol	3169.00		NIST Webbook
rinpol	3169.00		NIST Webbook
tb	1078.31	K	Joback Method
tc	1340.56	K	Joback Method
tf	656.02	K	Joback Method
vc	1.621	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1459.15	J/molxK	1078.31	Joback Method
cpg	1474.98	J/molxK	1122.02	Joback Method
cpg	1488.12	J/molxK	1165.73	Joback Method
cpg	1498.61	J/molxK	1209.43	Joback Method
cpg	1506.53	J/molxK	1253.14	Joback Method
cpg	1511.93	J/molxK	1296.85	Joback Method
cpg	1514.87	J/molxK	1340.56	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339825&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339825&amp;Units=SI</a>
<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>

# 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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