

# L-Phenylalanine, n-pentafluoropropionyl-, hexadecyl ester

<b>Inchi:</b>	InChI=1S/C28H42F5NO3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-18-21-37-25(35)24(22-23-1
<b>InchiKey:</b>	GHALAEIBDPQHRB-UHFFFAOYSA-N
<b>Formula:</b>	C28H42F5NO3
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)C(Cc1ccccc1)NC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	535.63

## Physical Properties

Property code	Value	Unit	Source
gf	-946.97	kJ/mol	Joback Method
hf	-1691.96	kJ/mol	Joback Method
hfus	68.85	kJ/mol	Joback Method
hvap	95.47	kJ/mol	Joback Method
log10ws	-9.56		Crippen Method
logp	7.936		Crippen Method
mcvol	409.460	ml/mol	McGowan Method
pc	758.07	kPa	Joback Method
rinsol	2908.00		NIST Webbook
tb	1036.50	K	Joback Method
tc	1283.72	K	Joback Method
tf	599.28	K	Joback Method
vc	1.623	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1435.53	J/mol×K	1036.50	Joback Method
cpg	1454.37	J/mol×K	1077.70	Joback Method
cpg	1471.90	J/mol×K	1118.91	Joback Method
cpg	1488.32	J/mol×K	1160.11	Joback Method
cpg	1503.82	J/mol×K	1201.32	Joback Method
cpg	1518.59	J/mol×K	1242.52	Joback Method
cpg	1532.83	J/mol×K	1283.72	Joback Method

# Sources

<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=U321030&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321030&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvac:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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