

# L-Phenylalanine, n-heptafluorobutryl-, dodecyl ester

<b>Inchi:</b>	InChI=1S/C25H34F7NO3/c1-2-3-4-5-6-7-8-9-10-14-17-36-21(34)20(18-19-15-12-11-13-1
<b>InchiKey:</b>	RSPXMXUFHOUQCC-UHFFFAOYSA-N
<b>Formula:</b>	C25H34F7NO3
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C(Cc1ccccc1)NC(=O)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	529.53

## Physical Properties

Property code	Value	Unit	Source
gf	-1359.01	kJ/mol	Joback Method
hf	-2031.01	kJ/mol	Joback Method
hfus	59.83	kJ/mol	Joback Method
hvap	85.86	kJ/mol	Joback Method
log10ws	-8.62		Crippen Method
logp	7.011		Crippen Method
mvol	370.730	ml/mol	McGowan Method
pc	857.47	kPa	Joback Method
rinpol	2484.00		NIST Webbook
rinpol	2484.00		NIST Webbook
tb	963.17	K	Joback Method
tc	1182.84	K	Joback Method
tf	569.07	K	Joback Method
vc	1.480	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1261.97	J/molxK	963.17	Joback Method
cpg	1278.35	J/molxK	999.78	Joback Method
cpg	1293.68	J/molxK	1036.39	Joback Method
cpg	1308.12	J/molxK	1073.00	Joback Method
cpg	1321.81	J/molxK	1109.62	Joback Method
cpg	1334.90	J/molxK	1146.23	Joback Method
cpg	1347.54	J/molxK	1182.84	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=U321116&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321116&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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