

# L-Phenylalanine, N-(3-cyclopentylpropionyl)-, methyl ester

Inchi:	InChI=1S/C18H25NO3/c1-22-18(21)16(13-15-9-3-2-4-10-15)19-17(20)12-11-14-7-5-6-8-
InchiKey:	QFAPOGGWKDCBDP-UHFFFAOYSA-N
Formula:	C18H25NO3
SMILES:	COC(=O)C(Cc1ccccc1)NC(=O)CCC1CCCC1
Mol. weight [g/mol]:	303.40

## Physical Properties

Property code	Value	Unit	Source
gf	-26.25	kJ/mol	Joback Method
hf	-427.03	kJ/mol	Joback Method
hfus	36.31	kJ/mol	Joback Method
hvap	80.14	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	2.857		Crippen Method
mcvol	248.850	ml/mol	McGowan Method
pc	1882.17	kPa	Joback Method
rinpol	2307.00		NIST Webbook
rinpol	2307.00		NIST Webbook
tb	833.09	K	Joback Method
tc	1055.32	K	Joback Method
tf	489.69	K	Joback Method
vc	0.935	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	782.79	J/mol×K	833.09	Joback Method
cpg	799.20	J/mol×K	870.13	Joback Method
cpg	814.29	J/mol×K	907.17	Joback Method
cpg	828.12	J/mol×K	944.21	Joback Method
cpg	840.75	J/mol×K	981.25	Joback Method
cpg	852.24	J/mol×K	1018.29	Joback Method
cpg	862.66	J/mol×K	1055.32	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U299656&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299656&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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