

# D-Alanine, N-butoxycarbonyl-, dodecyl ester

<b>Inchi:</b>	InChI=1S/C20H39NO4/c1-4-6-8-9-10-11-12-13-14-15-17-24-19(22)18(3)21-20(23)25-16
<b>InchiKey:</b>	XORTWTIOWWCJLX-UHFFFAOYSA-N
<b>Formula:</b>	C20H39NO4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C(C)NC(=O)OCCCC
<b>Mol. weight [g/mol]:</b>	357.53

## Physical Properties

Property code	Value	Unit	Source
gf	-263.37	kJ/mol	Joback Method
hf	-897.54	kJ/mol	Joback Method
hfus	54.71	kJ/mol	Joback Method
hvap	84.47	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.365		Crippen Method
mcvol	317.520	ml/mol	McGowan Method
pc	1092.82	kPa	Joback Method
rinsol	2415.00		NIST Webbook
tb	859.31	K	Joback Method
tc	1052.56	K	Joback Method
tf	497.14	K	Joback Method
vc	1.232	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1034.07	J/mol×K	859.31	Joback Method
cpg	1051.93	J/mol×K	891.52	Joback Method
cpg	1068.63	J/mol×K	923.73	Joback Method
cpg	1084.17	J/mol×K	955.93	Joback Method
cpg	1098.59	J/mol×K	988.14	Joback Method
cpg	1111.90	J/mol×K	1020.35	Joback Method
cpg	1124.12	J/mol×K	1052.56	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U347726&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U347726&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>hvap:</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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