

# D-Alanine, N-(4-ethylbenzoyl)-, pentadecyl ester

Inchi:	InChI=1S/C27H45NO3/c1-4-6-7-8-9-10-11-12-13-14-15-16-17-22-31-27(30)23(3)28-26(2
InchiKey:	ZZGOZBLQSXFELC-UHFFFAOYSA-N
Formula:	C27H45NO3
SMILES:	CCCCCCCCCCCCCOC(=O)C(C)NC(=O)c1ccc(CC)cc1
Mol. weight [g/mol]:	431.65

## Physical Properties

Property code	Value	Unit	Source
gf	3.35	kJ/mol	Joback Method
hf	-684.74	kJ/mol	Joback Method
hfus	65.30	kJ/mol	Joback Method
hvap	100.58	kJ/mol	Joback Method
log10ws	-8.71		Crippen Method
logp	7.002		Crippen Method
mvol	386.520	ml/mol	McGowan Method
pc	883.67	kPa	Joback Method
rinpol	3336.00		NIST Webbook
tb	1028.71	K	Joback Method
tc	1262.34	K	Joback Method
tf	592.74	K	Joback Method
vc	1.498	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1338.91	J/mol×K	1028.71	Joback Method
cpg	1356.77	J/mol×K	1067.65	Joback Method
cpg	1373.06	J/mol×K	1106.59	Joback Method
cpg	1387.86	J/mol×K	1145.53	Joback Method
cpg	1401.27	J/mol×K	1184.46	Joback Method
cpg	1413.36	J/mol×K	1223.40	Joback Method
cpg	1424.23	J/mol×K	1262.34	Joback Method

# Sources

<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=U354096&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354096&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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>h vap:</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>m cvol:</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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