

# N,n-di(2-hydroxy ethyl)-dodecanamide, dodecanoic acid mono ester

Inchi:	InChI=1S/C28H55NO4/c1-3-5-7-9-11-13-15-17-19-21-27(31)29(23-25-30)24-26-33-28(32)
InchiKey:	LEPBHONUTGAJFK-UHFFFAOYSA-N
Formula:	C28H55NO4
SMILES:	CCCCCCCCCCCC(=O)OCCN(CCO)C(=O)CCCCCCCCCCC
Mol. weight [g/mol]:	469.74
CAS:	29006-25-5

## Physical Properties

Property code	Value	Unit	Source
gf	-204.00	kJ/mol	Joback Method
hf	-1063.33	kJ/mol	Joback Method
hfus	79.77	kJ/mol	Joback Method
hvap	112.55	kJ/mol	Joback Method
log10ws	-8.01		Crippen Method
logp	7.192		Crippen Method
mcvol	430.240	ml/mol	McGowan Method
pc	727.70	kPa	Joback Method
tb	1074.82	K	Joback Method
tc	1372.20	K	Joback Method
tf	620.70	K	Joback Method
vc	1.671	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1559.00	J/molxK	1074.82	Joback Method
cpg	1583.39	J/molxK	1124.38	Joback Method
cpg	1605.34	J/molxK	1173.95	Joback Method
cpg	1625.09	J/molxK	1223.51	Joback Method
cpg	1642.83	J/molxK	1273.08	Joback Method
cpg	1658.80	J/molxK	1322.64	Joback Method
cpg	1673.20	J/molxK	1372.20	Joback Method

# Sources

<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>
<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=C29006255&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29006255&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>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>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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