

# Ethylamine, N,N-di(pentyl)-

<b>Inchi:</b>	InChI=1S/C12H27N/c1-4-7-9-11-13(6-3)12-10-8-5-2/h4-12H2,1-3H3
<b>InchiKey:</b>	PXAVTVNEDPAYJP-UHFFFAOYSA-N
<b>Formula:</b>	C12H27N
<b>SMILES:</b>	CCCCCN(CC)CCCC
<b>Mol. weight [g/mol]:</b>	185.35

## Physical Properties

Property code	Value	Unit	Source
gf	160.94	kJ/mol	Joback Method
hf	-223.48	kJ/mol	Joback Method
hfus	29.86	kJ/mol	Joback Method
hvap	44.35	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.689		Crippen Method
mcvol	189.920	ml/mol	McGowan Method
pc	1777.34	kPa	Joback Method
rinpol	1104.00		NIST Webbook
tb	486.40	K	Joback Method
tc	646.21	K	Joback Method
tf	257.47	K	Joback Method
vc	0.726	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.92	J/molxK	486.40	Joback Method
cpg	459.32	J/molxK	513.04	Joback Method
cpg	476.04	J/molxK	539.67	Joback Method
cpg	492.09	J/molxK	566.31	Joback Method
cpg	507.50	J/molxK	592.94	Joback Method
cpg	522.28	J/molxK	619.58	Joback Method
cpg	536.45	J/molxK	646.21	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=U416705&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416705&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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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

Latest version available from:

<https://www.chemeo.com/cid/75-345-6/Ethylamine-N-N-di-pentyl.pdf>

Generated by Cheméo on 2024-04-25 05:25:01.155263546 +0000 UTC m=+16311950.075840862.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.