

Diamyl ethyl amine

Other names:	1-Pentanamine, N-ethyl-N-pentyl Ethyl dipentyl amine
Inchi:	InChI=1S/C12H27N/c1-4-7-9-11-13(6-3)12-10-8-5-2/h4-12H2,1-3H3
InchiKey:	PXAVTVNEDPAYJP-UHFFFAOYSA-N
Formula:	C12H27N
SMILES:	CCCCCN(CC)CCCC
Mol. weight [g/mol]:	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	1196.00		NIST Webbook
rinpol	1174.60		NIST Webbook
rinpol	1196.00		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/mol×K	619.58	Joback Method
cpg	536.45	J/mol×K	646.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R19171&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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