

p-Decyloxyaniline

Other names:

4-n-Decyloxyaniline
Aniline, p-(decyloxy)-
Benzenamine, 4-(decyloxy)-
M & B 2655

Inchi:

InChI=1S/C16H27NO/c1-2-3-4-5-6-7-8-9-14-18-16-12-10-15(17)11-13-16/h10-13H,2-9,1

InchiKey:

XWGJQNKDSHYJID-UHFFFAOYSA-N

Formula:

C16H27NO

SMILES:

CCCCCCCCCOc1ccc(N)cc1

Mol. weight [g/mol]:

249.39

CAS:

39905-47-0

Physical Properties

Property code	Value	Unit	Source
gf	148.07	kJ/mol	Joback Method
hf	-246.94	kJ/mol	Joback Method
hfus	37.23	kJ/mol	Joback Method
hvap	67.20	kJ/mol	Joback Method
log10ws	-4.99		Crippen Method
logp	4.788		Crippen Method
mcvol	228.390	ml/mol	McGowan Method
pc	1739.01	kPa	Joback Method
tb	692.09	K	Joback Method
tc	889.04	K	Joback Method
tf	414.51	K	Joback Method
vc	0.871	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	647.78	J/mol×K	692.09	Joback Method
cpg	665.37	J/mol×K	724.92	Joback Method
cpg	682.00	J/mol×K	757.74	Joback Method
cpg	697.69	J/mol×K	790.57	Joback Method
cpg	712.48	J/mol×K	823.39	Joback Method

cpg	726.39	J/mol×K	856.22	Joback Method
cpg	739.45	J/mol×K	889.04	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	459.00 ± 2.00	K	0.10	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C39905470&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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