

p-Nonylaniline

Inchi:	InChI=1S/C15H25N/c1-2-3-4-5-6-7-8-9-14-10-12-15(16)13-11-14/h10-13H,2-9,16H2,1H3
InchiKey:	FDECURPHVMNAKO-UHFFFAOYSA-N
Formula:	C15H25N
SMILES:	CCCCCCCCc1ccc(N)cc1
Mol. weight [g/mol]:	219.37
CAS:	37529-29-6

Physical Properties

Property code	Value	Unit	Source
gf	244.65	kJ/mol	Joback Method
hf	-94.08	kJ/mol	Joback Method
hfus	33.45	kJ/mol	Joback Method
hvap	62.56	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	4.562		Crippen Method
mcvol	208.430	ml/mol	McGowan Method
pc	1915.26	kPa	Joback Method
tb	646.79	K	Joback Method
tc	847.46	K	Joback Method
tf	381.01	K	Joback Method
vc	0.796	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	564.64	J/molxK	646.79	Joback Method
cpg	582.28	J/molxK	680.23	Joback Method
cpg	598.94	J/molxK	713.68	Joback Method
cpg	614.68	J/molxK	747.12	Joback Method
cpg	629.52	J/molxK	780.57	Joback Method
cpg	643.50	J/molxK	814.01	Joback Method
cpg	656.68	J/molxK	847.46	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	399.00	K	0.08	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C37529296&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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