Benzenamine, 4-(octyloxy)-

Other names: 4-(Octyloxy)aniline
p-Octyloxyaniline
Inchi: InChI=1S/C14H23NO/c1-2-3-4-5-6-7-12-16-14-10-8-13(15)9-11-14/h8-11H,2-7,12,15H2,
InchiKey: ACYGZCHBIGKPGR-UHFFFAOYSA-N
Formula: C14H23NO
SMILES: CCCCCCCCOc1ccc(N)cc1
Mol. weight [g/mol]: 221.34
CAS: 39905-45-8

Physical Properties

Property code	Value	Unit	Source
gf	131.23	kJ/mol	Joback Method
hf	-205.66	kJ/mol	Joback Method
hfus	32.05	kJ/mol	Joback Method
hvap	62.75	kJ/mol	Joback Method
log10ws	-4.16		Crippen Method
logp	4.008		Crippen Method
mcvol	200.210	ml/mol	McGowan Method
pc	2054.89	kPa	Joback Method
tb	646.33	K	Joback Method
tc	847.94	K	Joback Method
tf	391.97	K	Joback Method
vc	0.758	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	539.64	J/mol×K	646.33	Joback Method
cpg	556.47	J/mol×K	679.93	Joback Method
cpg	572.38	J/mol×K	713.53	Joback Method
cpg	587.40	J/mol×K	747.13	Joback Method
cpg	601.56	J/mol×K	780.74	Joback Method
cpg	614.88	J/mol×K	814.34	Joback Method
cpg	627.39	J/mol×K	847.94	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	419.50 ± 1.50	K	0.07	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C39905458&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