Benzamide,p-(n-hexyloxy)-

Inchi: InChI=1S/C13H19NO2/c1-2-3-4-5-10-16-12-8-6-11(7-9-12)13(14)15/h6-9H,2-5,10H2,1H3
InchiKey: NXOVDGSWSADBOP-UHFFFAOYSA-N
Formula: C13H19NO2
SMILES: CCCCCCOc1ccc(C(N)=O)cc1
Mol. weight [g/mol]: 221.30
CAS: 101772-33-2

Physical Properties

Property code	Value	Unit	Source
gf	-6.11	kJ/mol	Joback Method
hf	-297.60	kJ/mol	Joback Method
hfus	31.06	kJ/mol	Joback Method
hvap	67.27	kJ/mol	Joback Method
log10ws	-3.86		Crippen Method
logp	2.745		Crippen Method
mcvol	187.690	ml/mol	McGowan Method
pc	2386.52	kPa	Joback Method
tb	677.32	K	Joback Method
tc	888.49	K	Joback Method
tf	430.63	K	Joback Method
vc	0.709	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	507.18	J/mol×K	677.32	Joback Method
cpg	522.08	J/mol×K	712.51	Joback Method
cpg	536.07	J/mol×K	747.71	Joback Method
cpg	549.17	J/mol×K	782.90	Joback Method
cpg	561.42	J/mol×K	818.10	Joback Method
cpg	572.83	J/mol×K	853.29	Joback Method
cpg	583.43	J/mol×K	888.49	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C101772332&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
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
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume