Benzamide, 4-methyl-N-heptyl-

Inchi: InChI=1S/C15H23NO/c1-3-4-5-6-7-12-16-15(17)14-10-8-13(2)9-11-14/h8-11H,3-7,12H2,
InchiKey: PRHRTVHVXHBXTM-UHFFFAOYSA-N
Formula: C15H23NO
SMILES: CCCCCCCNC(=O)c1ccc(C)cc1
Mol. weight [g/mol]: 233.35

Physical Properties

Property code	Value	Unit	Source
gf	138.67	kJ/mol	Joback Method
hf	-186.98	kJ/mol	Joback Method
hfus	34.96	kJ/mol	Joback Method
hvap	65.10	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	3.695		Crippen Method
mcvol	210.000	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
rinpol	2110.00		NIST Webbook
tb	678.30	K	Joback Method
tc	878.78	K	Joback Method
tf	400.34	K	Joback Method
vc	0.808	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.90	J/mol×K	678.30	Joback Method
cpg	591.31	J/mol×K	711.71	Joback Method
cpg	606.78	J/mol×K	745.13	Joback Method
cpg	621.33	J/mol×K	778.54	Joback Method
cpg	635.01	J/mol×K	811.96	Joback Method
cpg	647.86	J/mol×K	845.37	Joback Method
cpg	659.91	J/mol×K	878.78	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407472&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume