Benzamide, 2-methyl-N-butyl-N-pentyl-

Inchi: InChI=1S/C17H27NO/c1-4-6-10-14-18(13-7-5-2)17(19)16-12-9-8-11-15(16)3/h8-9,11-12H
InchiKey: QDAHTHYFGZTORP-UHFFFAOYSA-N
Formula: C17H27NO
SMILES: CCCCCN(CCCC)C(=O)c1ccccc1C
Mol. weight [g/mol]: 261.40

Physical Properties

Property code	Value	Unit	Source
gf	176.90	kJ/mol	Joback Method
hf	-214.20	kJ/mol	Joback Method
hfus	38.06	kJ/mol	Joback Method
hvap	65.16	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	4.428		Crippen Method
mcvol	238.180	ml/mol	McGowan Method
pc	1635.13	kPa	Joback Method
rinpol	2817.00		NIST Webbook
rinpol	2817.00		NIST Webbook
tb	686.33	K	Joback Method
tc	879.80	K	Joback Method
tf	402.69	K	Joback Method
vc	0.903	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.78	J/mol×K	686.33	Joback Method
cpg	683.67	J/mol×K	718.58	Joback Method
cpg	700.55	J/mol×K	750.82	Joback Method
cpg	716.47	J/mol×K	783.07	Joback Method
cpg	731.47	J/mol×K	815.31	Joback Method
cpg	745.59	J/mol×K	847.56	Joback Method
cpg	758.88	J/mol×K	879.80	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415732&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume