

Benzamide, 4-butyl-N-butyl-N-octyl-

Inchi:	InChI=1S/C23H39NO/c1-4-7-10-11-12-13-20-24(19-9-6-3)23(25)22-17-15-21(16-18-22)1
InchiKey:	REIHWJUUYPLFQ-UHFFFAOYSA-N
Formula:	C23H39NO
SMILES:	CCCCCCCCN(CCCC)C(=O)c1ccc(CCCC)cc1
Mol. weight [g/mol]:	345.56

Physical Properties

Property code	Value	Unit	Source
gf	227.42	kJ/mol	Joback Method
hf	-338.04	kJ/mol	Joback Method
hfus	53.60	kJ/mol	Joback Method
hvap	78.52	kJ/mol	Joback Method
log10ws	-7.44		Crippen Method
logp	6.632		Crippen Method
mvol	322.720	ml/mol	McGowan Method
pc	1075.69	kPa	Joback Method
rinpol	3199.00		NIST Webbook
rinpol	3199.00		NIST Webbook
tb	823.61	K	Joback Method
tc	1015.94	K	Joback Method
tf	470.31	K	Joback Method
vc	1.240	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1017.67	J/molxK	823.61	Joback Method
cpg	1037.04	J/molxK	855.66	Joback Method
cpg	1055.30	J/molxK	887.72	Joback Method
cpg	1072.52	J/molxK	919.77	Joback Method
cpg	1088.75	J/molxK	951.83	Joback Method
cpg	1104.04	J/molxK	983.88	Joback Method
cpg	1118.47	J/molxK	1015.94	Joback Method

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=U415880&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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