Benzamide, N,N-dinonyl-3-methoxy-

Inchi: InChI=1S/C26H45NO2/c1-4-6-8-10-12-14-16-21-27(22-17-15-13-11-9-7-5-2)26(28)24-19
InchiKey: ZAXGAFMMPLPKPI-UHFFFAOYSA-N
Formula: C26H45NO2
SMILES: CCCCCCCCCN(CCCCCCCCC)C(=O)c1cccc(OC)c1
Mol. weight [g/mol]: 403.64

Physical Properties

Property code	Value	Unit	Source
gf	147.68	kJ/mol	Joback Method
hf	-532.18	kJ/mol	Joback Method
hfus	62.56	kJ/mol	Joback Method
hvap	87.61	kJ/mol	Joback Method
log10ws	-8.43		Crippen Method
logp	7.639		Crippen Method
mcvol	370.860	ml/mol	McGowan Method
pc	888.94	kPa	Joback Method
rinpol	3011.00		NIST Webbook
tb	914.67	K	Joback Method
tc	1119.84	K	Joback Method
tf	526.35	K	Joback Method
vc	1.425	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1237.20	J/mol×K	914.67	Joback Method
cpg	1257.20	J/mol×K	948.87	Joback Method
cpg	1275.89	J/mol×K	983.06	Joback Method
cpg	1293.32	J/mol×K	1017.26	Joback Method
cpg	1309.57	J/mol×K	1051.45	Joback Method
cpg	1324.70	J/mol×K	1085.65	Joback Method
cpg	1338.78	J/mol×K	1119.84	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308155&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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