

Benzamide, 3-methoxy-N-(3-methoxybenzoyl)-N-methyl-

Inchi:	InChI=1S/C17H17NO4/c1-18(16(19)12-6-4-8-14(10-12)21-2)17(20)13-7-5-9-15(11-13)22
InchiKey:	SQQGHUZPDMSBNL-UHFFFAOYSA-N
Formula:	C17H17NO4
SMILES:	COc1cccc(C(=O)N(C)C(=O)c2cccc(OC)c2)c1
Mol. weight [g/mol]:	299.32

Physical Properties

Property code	Value	Unit	Source
gf	-59.24	kJ/mol	Joback Method
hf	-366.16	kJ/mol	Joback Method
hfus	35.68	kJ/mol	Joback Method
hvap	79.67	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	2.616		Crippen Method
mvol	227.730	ml/mol	McGowan Method
pc	2208.29	kPa	Joback Method
rinpol	2380.00		NIST Webbook
rinpol	2380.00		NIST Webbook
tb	816.70	K	Joback Method
tc	1046.56	K	Joback Method
tf	536.02	K	Joback Method
vc	0.838	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	651.87	J/mol×K	816.70	Joback Method
cpg	665.52	J/mol×K	855.01	Joback Method
cpg	677.94	J/mol×K	893.32	Joback Method
cpg	689.16	J/mol×K	931.63	Joback Method
cpg	699.22	J/mol×K	969.94	Joback Method
cpg	708.14	J/mol×K	1008.25	Joback Method
cpg	715.96	J/mol×K	1046.56	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=U407521&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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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