

4-Methoxybenzenamide, N-(4-methoxyphenyl)-

Other names:	4-Methoxy-N-(4-methoxyphenyl)benzamide Benzamide, N-(4-methoxyphenyl)-4-methoxy-
Inchi:	InChI=1S/C15H15NO3/c1-18-13-7-3-11(4-8-13)15(17)16-12-5-9-14(19-2)10-6-12/h3-10H
InchiKey:	QHJITBHWXMRQAX-UHFFFAOYSA-N
Formula:	C15H15NO3
SMILES:	COc1ccc(NC(=O)c2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	257.28
CAS:	27865-44-7

Physical Properties

Property code	Value	Unit	Source
gf	31.45	kJ/mol	Joback Method
hf	-226.36	kJ/mol	Joback Method
hfus	30.98	kJ/mol	Joback Method
hvap	72.86	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	2.956		Crippen Method
mvol	197.980	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
rinpol	2508.00		NIST Webbook
tb	754.80	K	Joback Method
tc	988.32	K	Joback Method
tf	483.74	K	Joback Method
vc	0.737	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	542.63	J/molxK	754.80	Joback Method
cpg	556.80	J/molxK	793.72	Joback Method
cpg	569.81	J/molxK	832.64	Joback Method
cpg	581.67	J/molxK	871.56	Joback Method
cpg	592.41	J/molxK	910.48	Joback Method
cpg	602.05	J/molxK	949.40	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C27865447&Units=SI

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

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