

Benzamide, 3-methoxy-N-pentyl-

Inchi:	InChI=1S/C13H19NO2/c1-3-4-5-9-14-13(15)11-7-6-8-12(10-11)16-2/h6-8,10H,3-5,9H2,1
InchiKey:	KXCGZDVBFYNVSM-UHFFFAOYSA-N
Formula:	C13H19NO2
SMILES:	CCCCCNC(=O)c1cccc(OC)c1
Mol. weight [g/mol]:	221.30

Physical Properties

Property code	Value	Unit	Source
gf	16.83	kJ/mol	Joback Method
hf	-277.92	kJ/mol	Joback Method
hfus	30.96	kJ/mol	Joback Method
hvap	63.06	kJ/mol	Joback Method
log10ws	-3.61		Crippen Method
logp	2.615		Crippen Method
mvol	187.690	ml/mol	McGowan Method
pc	2287.14	kPa	Joback Method
rmpol	2016.00		NIST Webbook
rmpol	2016.00		NIST Webbook
tb	654.96	K	Joback Method
tc	858.94	K	Joback Method
tf	400.03	K	Joback Method
vc	0.715	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	496.54	J/mol×K	654.96	Joback Method
cpg	511.74	J/mol×K	688.96	Joback Method
cpg	526.06	J/mol×K	722.95	Joback Method
cpg	539.54	J/mol×K	756.95	Joback Method
cpg	552.17	J/mol×K	790.95	Joback Method
cpg	564.00	J/mol×K	824.95	Joback Method
cpg	575.04	J/mol×K	858.94	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=U407511&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
h vap:	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
r in 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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