Phenyl-n,n-dimethyl carbamate

Inchi: InChI=1S/C9H11NO2/c1-10(2)9(11)12-8-6-4-3-5-7-8/h3-7H,1-2H3
InchiKey: MYOHNZJKOAODMX-UHFFFAOYSA-N
Formula: C9H11NO2
SMILES: CN(C)C(=O)Oc1ccccc1
Mol. weight [g/mol]: 165.19
CAS: 6969-90-0

Physical Properties

Property code	Value	Unit	Source
gf	14.17	kJ/mol	Joback Method
hf	-169.83	kJ/mol	Joback Method
hfus	18.92	kJ/mol	Joback Method
hvap	49.10	kJ/mol	Joback Method
log10ws	-1.75		Crippen Method
logp	1.747		Crippen Method
mcvol	131.330	ml/mol	McGowan Method
pc	3431.89	kPa	Joback Method
tb	520.73	K	Joback Method
tc	733.75	K	Joback Method
tf	322.24	K	Joback Method
vc	0.473	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.41	J/mol×K	520.73	Joback Method
cpg	302.85	J/mol×K	556.23	Joback Method
cpg	315.48	J/mol×K	591.74	Joback Method
cpg	327.32	J/mol×K	627.24	Joback Method
cpg	338.40	J/mol×K	662.74	Joback Method
cpg	348.75	J/mol×K	698.25	Joback Method
cpg	358.39	J/mol×K	733.75	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=C6969900&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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