

Benzeneacetamide, N,N-dimethyl-

Other names:	Acetamide, N,N-dimethyl-2-phenyl- N,N-Dimethyl-2-phenylacetamide N,N-Dimethylbenzeneacetamide N,N-Dimethylphenylacetamide Phenyl-N,N-dimethylacetamide Phenylacetic acid N,N-dimethylamide
Inchi:	InChI=1S/C10H13NO/c1-11(2)10(12)8-9-6-4-3-5-7-9/h3-7H,8H2,1-2H3
InchiKey:	FHVMATOIMUHQRC-UHFFFAOYSA-N
Formula:	C10H13NO
SMILES:	CN(C)C(=O)Cc1ccccc1
Mol. weight [g/mol]:	163.22
CAS:	18925-69-4

Physical Properties

Property code	Value	Unit	Source
gf	127.59	kJ/mol	Joback Method
hf	-58.25	kJ/mol	Joback Method
hfus	20.32	kJ/mol	Joback Method
hvap	48.92	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	1.317		Crippen Method
mcvol	139.550	ml/mol	McGowan Method
pc	3135.00	kPa	Joback Method
rinpol	1535.00		NIST Webbook
rinpol	1535.00		NIST Webbook
tb	521.19	K	Joback Method
tc	732.99	K	Joback Method
tf	311.28	K	Joback Method
vc	0.511	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.15	J/mol×K	521.19	Joback Method

cpg	324.85	J/mol×K	556.49	Joback Method
cpg	338.60	J/mol×K	591.79	Joback Method
cpg	351.47	J/mol×K	627.09	Joback Method
cpg	363.49	J/mol×K	662.39	Joback Method
cpg	374.69	J/mol×K	697.69	Joback Method
cpg	385.14	J/mol×K	732.99	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18925694&Units=SI
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

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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