2-Hydroxy-n,n-dimethyl[1,1'-biphenyl]-3-carboxam

Inchi: InChI=1S/C15H15NO2/c1-16(2)15(18)13-10-6-9-12(14(13)17)11-7-4-3-5-8-11/h3-10,17H
InchiKey: FFHMRUWVKUUENH-UHFFFAOYSA-N
Formula: C15H15NO2
SMILES: CN(C)C(=O)c1cccc(-c2ccccc2)c1O
Mol. weight [g/mol]: 241.29
CAS: 46878-66-4

Physical Properties

Property code	Value	Unit	Source
gf	117.85	kJ/mol	Joback Method
hf	-113.70	kJ/mol	Joback Method
hfus	32.70	kJ/mol	Joback Method
hvap	76.00	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	2.761		Crippen Method
mcvol	192.110	ml/mol	McGowan Method
pc	3082.99	kPa	Joback Method
tb	747.87	K	Joback Method
tc	993.19	K	Joback Method
tf	518.29	K	Joback Method
vc	0.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	528.95	J/mol×K	747.87	Joback Method
cpg	542.94	J/mol×K	788.76	Joback Method
cpg	555.93	J/mol×K	829.64	Joback Method
cpg	568.08	J/mol×K	870.53	Joback Method
cpg	579.52	J/mol×K	911.42	Joback Method
cpg	590.39	J/mol×K	952.30	Joback Method
cpg	600.86	J/mol×K	993.19	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C46878664&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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