Nordiphenamid

Other names:	Benzeneacetamide, N-methyl-«alpha»-phenyl- Acetamide, N-methyl-2,2-diphenyl- N-Methyl-2,2-diphenylacetamide Nordiphenamide Desmethyl diphenamid N-methyldiphenylacetamide
Inchi:	InChI=1S/C15H15NO/c1-16-15(17)14(12-8-4-2-5-9-12)13-10-6-3-7-11-13/h2-11,14H,1H3
InchiKey:	DIZKGJLRHOCMTP-UHFFFAOYSA-N
Formula:	C15H15NO
SMILES:	CN=C(O)C(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	225.29
CAS:	954-21-2

Physical Properties

Property code	Value	Unit	Source
hf	35.05	kJ/mol	Joback Method
hvap	73.22	kJ/mol	Joback Method
log10ws	-3.36		Crippen Method
logp	3.405		Crippen Method
mcvol	186.240	ml/mol	McGowan Method
pc	2510.03	kPa	Joback Method
tb	764.26	K	Joback Method
tc	1000.52	K	Joback Method
tf	439.80 ± 0.20	K	NIST Webbook
tf	439.87 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	30.23	kJ/mol	439.80	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C954212&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

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
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