

Carbaril

Other names:

.alpha.-naphthalenyl methylcarbamate
.alpha.-naphthyl methylcarbamate
1-Naphthalenol, 1-(N-methylcarbamate)
1-Naphthalenol, methylcarbamate
1-Naphthol N-methylcarbamate
1-Naphthyl N-methylcarbamate
1-Naphthyl N-methylcarbamateacid O,O-diethyl ester
1-Naphthyl methylcarbamate
1-naphthalenyl methylcarbamate
Adios
Arilat
Arilate
Arylam
Atoxan
Bercema NMC50
Caprolin
Carbamic acid, N-methyl,1-naphthyl ester
Carbamic acid, N-methyl-1-naphthyl-
Carbamic acid, methyl-, 1-naphthyl ester
Carbamine
Carbarilo
Carbarilum
Carbaryl
Carbatox
Carbatox 75
Carbatox-60
Carbavur
Carbomate
Carpolin
Carylderm
Clinicide
Compound 7744
Crag sevin
Denapon
Derbac
Dicarbam
Dicarbament 23,969
Dyna-carbyl
ENT-23969
Experimental Insecticide 7744

Gamonil
Germain's
Hexavin
Karbaryl
Karbapray
Karbatox
Karbatox 75
Karbosep
Laivin
Menaphtam
Methylcarbamate, 1-naphthalenol
Methylcarbamic acid, 1-naphthyl ester
Monsur
Mugan
Murvin
N-Methyl-1-naftyl-carbamaat
N-Methyl-1-naphthyl carbamate
N-Methyl-1-naphthyl-carbamat
N-Methyl-«alpha»-Naphthylcarbamate
N-Methyl-«alpha»-naphthylurethan
N-Methyl-«alpha»-Naphthylcarbamate
N-Methyl-«alpha»-naphthylurethan
N-Methylcarbamate de 1-naphtyle
N-Metil-1-naftil-carbammato
NAC
NMC 50
OMS-29
Oltitox
Panam
Pomex
Prosevor 85
Ravyon
SOK
Seffein
Septene
Sevimol
Sevin
Sevin 4
Sevin SL
Sewin
Suleo
Thinsec
Tornado

Tricarnam
 UC 7744
 Union Carbide 7744
 Vetox
 Vetox 85
 Vioxan
 naphthalen-1-yl N-methylcarbamate
 «alpha»-Naftyl-N-methylkarbamat
 «alpha»-Naphthalenyl methylcarbamate
 «alpha»-Naphthyl N-methylcarbamate
 «alpha»-Naphthyl methylcarbamate
 Â«alphaÂ»-Naftyl-N-methylkarbamat
 Â«alphaÂ»-Naphthalenyl methylcarbamate
 Â«alphaÂ»-Naphthyl N-methylcarbamate
 Â«alphaÂ»-Naphthyl methylcarbamate
Inchi: InChI=1S/C12H11NO2/c1-13-12(14)15-11-8-4-6-9-5-2-3-7-10(9)11/h2-8H,1H3,(H,13,14)
InchiKey: CVXBEEKKQHEXEN-UHFFFAOYSA-N
Formula: C12H11NO2
SMILES: CNC(=O)Oc1cccc2ccccc12
Mol. weight [g/mol]: 201.22
CAS: 63-25-2

Physical Properties

Property code	Value	Unit	Source
gf	115.06	kJ/mol	Joback Method
hf	-66.21	kJ/mol	Joback Method
hfus	25.39	kJ/mol	Joback Method
hvap	62.48	kJ/mol	Joback Method
log10ws	-2.94		Aqueous Solubility Prediction Method
log10ws	-3.22		Estimated Solubility Method
logp	2.558		Crippen Method
mcvol	154.140	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
rinpol	1915.00		NIST Webbook
rinpol	1903.00		NIST Webbook
rinpol	1903.00		NIST Webbook
rinpol	1912.00		NIST Webbook
rinpol	1865.00		NIST Webbook

rmpol	1871.00		NIST Webbook
rmpol	1910.00		NIST Webbook
ripol	2826.00		NIST Webbook
tb	651.06	K	Joback Method
tc	884.28	K	Joback Method
tf	415.50 ± 0.20	K	NIST Webbook
tf	415.90 ± 0.20	K	NIST Webbook
tf	416.89 ± 0.20	K	NIST Webbook
tf	415.90	K	Aqueous Solubility Prediction Method
vc	0.581	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.72	J/mol×K	845.41	Joback Method
cpg	384.13	J/mol×K	651.06	Joback Method
cpg	397.06	J/mol×K	689.93	Joback Method
cpg	409.02	J/mol×K	728.80	Joback Method
cpg	420.08	J/mol×K	767.67	Joback Method
cpg	430.30	J/mol×K	806.54	Joback Method
cpg	448.41	J/mol×K	884.28	Joback Method
hfust	24.51	kJ/mol	416.30	NIST Webbook

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C63252&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Thermodynamics of dissolution for 1-naphtol N-methylcarbamate in pure, ionized and Mediterranean sea water by dynamic saturation method;

<https://www.doi.org/10.1016/j.fluid.2007.11.012>

https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method:

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Estimated Solubility Method:

http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

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
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
rnpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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