

2-Naphthalenecarboxamide, 3-hydroxy-N-(2-methylphenyl)-

Other names:

Acco Naf-Sol AS-D
Acco Naphthol AS-D
Acna Naphthol E
Amanil Naphthol AS-D
Amarthol AS-D
Anthonaphthol AS-D
Azoground D
Azoic Coupling Component 18
Azonaphtol OT
Azotol OT
Brenthol OT
Brentosyn OTN
C.I. Azoic Coupling Component 110
C.I. Azoic Coupling Component 18
C.I. Developer 21
C.I. 37520
Celcot RTO
Cibanaphthol RTO
Daito Grounder D
Dianix Developer ND
Diathol D
Dragonthol D
Hiltonaphthol AS-D
Miketazol Developer NDF
Mitsui Naphthozol D
Naftolo MD
Naphtanilide D
Naphtanilide D Supra
Naphtazol D
Naphthanil AS-D
Naphthoide AD
Naphthol AS D
Naphthol AS-D Dispersible
Naphthol AS-D Supra
Naphtoelan D
Naphtol AS-D
Naphtol AS-D Supra
Solunaptol OT
Tulathol AS-D
Ultrazol D

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

1-(2',3'-Hydroxynaphthoylamino)-2-methylbenzene

2-Naphtho-o-toluidide, 3-hydroxy-

3-hydroxy-2'-methyl-2-naphthanilide

InChI=1S/C18H15NO2/c1-12-6-2-5-9-16(12)19-18(21)15-10-13-7-3-4-8-14(13)11-17(15)

FBLAHUMENIHUGG-UHFFFAOYSA-N

C18H15NO2

Cc1ccccc1NC(=O)c1cc2ccccc2cc1O

277.32

135-61-5

Physical Properties

Property code	Value	Unit	Source
gf	218.74	kJ/mol	Joback Method
hf	-10.08	kJ/mol	Joback Method
hfus	39.18	kJ/mol	Joback Method
hvap	89.37	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	4.106		Crippen Method
mcvol	214.920	ml/mol	McGowan Method
pc	2940.89	kPa	Joback Method
tb	878.20	K	Joback Method
tc	1135.97	K	Joback Method
tf	617.51	K	Joback Method
vc	0.756	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	626.54	J/mol×K	878.20	Joback Method
cpg	639.63	J/mol×K	921.16	Joback Method
cpg	652.17	J/mol×K	964.12	Joback Method
cpg	664.38	J/mol×K	1007.09	Joback Method
cpg	676.44	J/mol×K	1050.05	Joback Method
cpg	688.57	J/mol×K	1093.01	Joback Method
cpg	700.95	J/mol×K	1135.97	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C135615&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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