

2-Naphthalenol, 1-(phenylazo)-

Other names:

- 1-Benzeneazo-2-naphthol
- Benzeneazo-«beta»-naphthol
- Brasilazina Oil Orange
- Calcogas Orange NC
- Ceres Orange R
- C.I. 12055
- C.I. Solvent Yellow 14
- Dispersol Yellow PP
- Enial Orange I
- Fast Oil Orange I
- Fast Orange
- Fat Orange 4A
- Fat Orange G
- Fat Orange I
- Fat Orange R
- Fat Orange RS
- Fat Soluble Orange
- Grasal Orange
- Grasan Orange R
- Hidaco Oil Orange
- 2-Hydroxynaphthyl-1-azobenzene
- 2-Hydroxy-1-phenylazonaphthalene
- Lacquer Orange VG
- Morton Orange Y
- Oil Orange
- Oil Orange 31
- Oil Orange 2311
- Oil Orange 2B
- Oil Orange E
- Oil Orange PEL
- Oil Orange R
- Oil Orange 7078-V
- Oil Orange Z-7078
- Oil Soluble Orange
- Oleal Orange R
- Orange Pel
- Orange 3RA Soluble in Grease
- Orange R Fat Soluble
- Sudan I
- Atul Orange R

Benzene-1-azo-2-naphthol
Brilliant Oil Orange R
Calco Oil Orange Z-7078
Calco Oil Orange 7078
Calco Oil Orange 7078-Y
Calcogas M
Campbelline Oil Orange
Carminaph
Cerotinorange G
Dunkelgelb
Fast Oil Orange
Fettorange Ig
Fettorange R
Fettorange 4a
Motiorange R
NCI-C53929
Oil Orange EP
Oil Orange G
Oil Orange R-14
Orange A L'Huile
Orange Insoluble Olg
Orange Resenole No. 3
Orange Soluble A L'Huile
Organol Orange
Orient Oil Orange PS
Petrol Orange Y
Plastoresin Orange F4A
Pyronalorange
Resinol Orange R
Resoform Orange G
Sansel Orange G
Scharlach B
Silotras Orange TR
Solvent Yellow No. 14
Solvent Yellow 14
Somalia Orange I
Soudan I
Spirit Orange
Spirit Yellow I
Stearix Orange
Sudan J
Sudan Orange R
Sudan Orange RA

Sudan Orange RA New
 Sudan Yellow
 Sudan 1
 Tertrogras Orange SV
 Toyo Oil Orange
 Waxakol Orange GL
 Waxoline Yellow I
 Waxoline Yellow IM
 Waxoline Yellow IP
 Waxoline Yellow IS
 1-(Phenylazo)-2-naphthalenol
 1-(Phenylazo)-2-naphthol
 1-Benzoazo-2-naphthol
 1-Phenylazo-«beta»-naphthol
 2-Naphthol, 1-(phenylazo)-
 2-Naphtholazobenzene
 Zlut rozpoustedlova 14
 CI 12055
 2-Naphthalenol, 1-(2-phenyldiazenyl)-
 Waxoline Orange EP-FW
 1-(2-Hydroxynaphthyl)azobenzene
 1-(Phenylazo)-2-hydroxynaphthalene
 Disperse Yellow 97
 «alpha»-Phenylazo-«beta»-naphthol

Inchi: InChI=1S/C16H12N2O/c19-15-11-10-12-6-4-5-9-14(12)16(15)18-17-13-7-2-1-3-8-13/h1-
InchiKey: MRQIXHXHHPWVIL-UHFFFAOYSA-N
Formula: C16H12N2O
SMILES: Oc1ccc2ccccc2c1N=Nc1cccc1
Mol. weight [g/mol]: 248.28
CAS: 842-07-9

Physical Properties

Property code	Value	Unit	Source
chs	-8257.10	kJ/mol	NIST Webbook
hf	149.00	kJ/mol	Joback Method
hfs	246.00	kJ/mol	NIST Webbook
hvap	77.75	kJ/mol	Joback Method
log10ws	-4.86		Crippen Method
logp	4.961		Crippen Method

mvol	190.850	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
tb	872.62	K	Joback Method
tc	1153.67	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	116.70 ± 5.40	kJ/mol	362.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C842079&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

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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