SUDAN I

Other names:

1-(2-Hydroxynaphthyl)azobenzene
1-(Phenylazo)-2-hydroxynaphthalene
1-(Phenylazo)-2-naphthalenol
1-(Phenylazo)-2-naphthol
1-Benzeneazo-2-naphthol
1-Benzoazo-2-naphthol
1-Phenylazo-«beta»-naphthol
2-Hydroxy-1-phenylazonaphthalene
2-Hydroxynaphthyl-1-azobenzene
2-Naphthalenol, 1-(2-phenyldiazenyl)-
2-Naphthol, 1-(phenylazo)-
2-Naphtholazobenzene
Atul Orange R
Benzene-1-azo-2-naphthol
Benzeneazo-«beta»-naphthol
Brasilazina Oil Orange
Brilliant Oil Orange R
C.I. 12055
C.I. Solvent Yellow 14
CI 12055
Calco Oil Orange 7078
Calco Oil Orange 7078-Y
Calco Oil Orange Z-7078
Calcogas M
Calcogas Orange NC
Campbelline Oil Orange
Carminaph
Ceres Orange R
Cerotinorange G
Disperse Yellow 97
Dispersol Yellow PP
Dunkelgelb
Enial Orange I
Fast Oil Orange
Fast Oil Orange I
Fast Orange
Fat Orange 4A
Fat Orange G
Fat Orange I
Fat Orange R

Fat Orange RS
Fat Soluble Orange
Fettorange 4a
Fettorange R
Fettorange lg
Grasal Orange
Grasan Orange R
Hidaco Oil Orange
Lacquer Orange VG
Morton Orange Y
Motiorange R
NCI-C53929
Oil Orange
Oil Orange 2311
Oil Orange 2B
Oil Orange 31
Oil Orange 7078-V
Oil Orange E
Oil Orange EP
Oil Orange G
Oil Orange PEL
Oil Orange R
Oil Orange R-14
Oil Orange Z-7078
Oil Soluble Orange
Oleal Orange R
Orange 3RA Soluble in Grease
Orange A L'Huile
Orange Insoluble Olg
Orange Pel
Orange R Fat Soluble
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 14
Solvent Yellow No. 14
Somalia Orange I
Soudan I
Spirit Orange
Spirit Yellow I
Stearix Orange
Sudan 1
Sudan I
Sudan J
Sudan Orange R
Sudan Orange RA
Sudan Orange RA New
Sudan Yellow
Tertrogras Orange SV
Toyo Oil Orange
Waxakol Orange GL
Waxoline Orange EP-FW
Waxoline Yellow I
Waxoline Yellow IM
Waxoline Yellow IP
Waxoline Yellow IS
Zlut rozpoustedlova 14
«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/h1-1

InchiKey: MRQIXHXHHPWVIL-UHFFFAOYSA-N

Formula: C16H12N2O

SMILES: Oc1ccc2ccccc2c1N=Nc1ccccc1

Mol. weight [g/mol]: 248.29

Physical Properties

Property code	Value	Unit	Source
hf	322.85	kJ/mol	Cheméo Relay (1.0)
hvap	98.82	kJ/mol	Cheméo Relay (1.0)
ie	7.64	eV	Cheméo Relay (1.0)
log10ws	-4.03		Cheméo Relay (1.0)
logp	4.961		Crippen Method
mcvol	190.850	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
tb	657.65	K	Cheméo Relay (1.0)

tc	1009.18	K	Cheméo Relay (1.0)
tf	406.18	K	Cheméo Relay (1.0)

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C842079&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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