

SUDAN II

Other names:

AF Red No. 5
Brasilazina Oil Scarlet 6G
Calco Oil Scarlet BL
Ceres Orange RR
Cerisol Scarlet G
C.I. 12140
C.I. Solvent Orange 7
Ext D and C Red No. 14
Fast Oil Orange II
Fat Scarlet 2G
FD And C red No. 32
Grasan Orange 3R
Japan Red 5
Japan Red 505
Japan Red No.5
Lacquer Orange VR
Oil Orange KB
Oil Orange N Extra
Oil Orange R
Oil Orange 2R
Oil Orange X
Oil Orange XO
Oil Red XO
Oil Scarlet
Oil Scarlet 371
Oil Scarlet BL
Oil Scarlet 6G
Oil Scarlet YS
Red No. 5
Resin Scarlet 2R
Somalia Orange A 2R
Somalia Orange 2R
Sudan II
Sudan orange
Sudan Orange RPA
Sudan Orange RRA
Sudan Red
A.F. Red No. 5
Aizen Food Red No. 5
Brilliant oil scarlet B

Calco oil scarlet ZBL
 Ceres oranges RR
 Cerotinscharlach G
 Ext. D and C Red No. 14
 Extract D & C Red No. 14
 Fat Red (Yellowish)
 Fettorange B
 Motirot G
 Oil scarlet APYO
 Oil scarlet L
 Oil scarlet Y
 Oil Red Gro
 Oil Red RO
 Orange Insoluble RR
 Orange Oil KB
 Ponceau insoluble olg
 Pyronalrot R
 Red B
 Resoform Orange R
 Rot B
 Rot GG fettloeslich
 Solvent Orange 7
 Soudan II
 Sudan ax
 Sudan scarlet 6G
 Sudan X
 Waxakol vermilion L
 1-(o-Xylylazo)-2-naphthol
 1-(2,4-Xylylazo)-2-naphthol
 1-((2,4-Dimethylphenyl)azo)-2-naphthalenol
 1-Xylylazo-2-naphthol
 2-Naphthol, 1-(2,4-xylylazo)-
 Ext. D and C. Red. No. 14
 Oranz rozpoustedlova 7
 Sudan 2
 1-(2,4-Dimethylphenylazo)-2-naphthol
 1-[(2,4-Dimethylphenyl)diazenyl]-2-naphthol
 Red 505
 2-Naphthalenol, 1-[2-(2,4-dimethylphenyl)diazenyl]-

Inchi:

InChI=1S/C18H16N2O/c1-12-7-9-16(13(2)11-12)19-20-18-15-6-4-3-5-14(15)8-10-17(18)

InchiKey:

JBTHDAVBDDKSRW-UHFFFAOYSA-N

Formula:

C18H16N2O

SMILES:

Cc1ccc(N=Nc2c(O)ccc3ccccc23)c(C)c1

Mol. weight [g/mol]: 276.34

Physical Properties

Property code	Value	Unit	Source
af	0.8234		Cheméo Relay (1.0)
chs	-9395.00 ± 20.00	kJ/mol	NIST Webbook
chs	-9576.80	kJ/mol	NIST Webbook
hf	245.65	kJ/mol	Cheméo Relay (1.0)
hfs	25.00 ± 20.00	kJ/mol	NIST Webbook
hfs	207.00	kJ/mol	NIST Webbook
hvap	105.24	kJ/mol	Cheméo Relay (1.0)
ie	7.46	eV	Cheméo Relay (1.0)
log10ws	-4.55		Cheméo Relay (1.0)
logp	5.578		Crippen Method
mcvol	219.030	ml/mol	McGowan Method
pc	2071.76	kPa	Joback Method
tb	670.64	K	Cheméo Relay (1.0)
tc	1013.44	K	Cheméo Relay (1.0)
tf	389.64	K	Cheméo Relay (1.0)
vc	0.791	m ³ /kmol	Cheméo Relay (1.0)

Sources

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=C3118976&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
chs:	Standard solid enthalpy of combustion

hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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
vc:	Critical Volume

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