

# 2-Naphthalenol, 1-[[2-methyl-4-[(2-methylphenyl)azo]phenyl]azo]-

Other names:

Scarlet red  
C.I. Solvent Red 24  
Biebrich Scarlet BPC  
Biebrich Scarlet Red  
Brasilazina Oil Red B  
C.I. 26105  
Candle Scarlet B  
Candle Scarlet G  
Candle Scarlet 2B  
Ceres Red BB  
Dispersol Red PP  
Enial Red IV  
Fast Oil Red B  
Fast Red BB  
Fat Ponceau R  
Fat Red B  
Fat Red BB  
Fat Red BS  
Fat Red TS  
Fat Red 2B  
Fat Soluble Dark Red  
Grasal Brilliant Red B  
Grasan Brilliant Red B  
Hidaco Oil Red  
Lacquer Red V  
Lacquer Red VS  
Oil Red A  
Oil Red APT  
Oil Red BB  
Oil Red BS  
Oil Red D  
Oil Red ED  
Oil Red F  
Oil Red GO  
Oil Red RC  
Oil Red RR  
Oil Red S  
Oil Red TAX  
Oil Red ZD  
Oil Red 2B

Oil Red 282  
Oil Red 3  
Oil Red 3B  
Oil Red 47  
Oil Red 7  
Oil Scarlet  
Oil Scarlet 48  
Oil Soluble Dark Red  
Oleal Red BB  
Organol Red B  
Orient Oil Red RR  
Plastoresin Red F  
Red 3R, soluble in grease  
Resinol Red 2B  
Scarlet oil  
Scarlet Red, biebrich  
Silotras Red T 3B  
Somalia Red IV  
Stearix Red 4B  
Stearix Red 4S  
Sudan IV  
Sudan P  
Sudan Red BB  
Sudan Red BBA  
Sudan Red IV  
Tertrogras Red N  
Toyo Oil Red BB  
Waxoline Red O  
Waxoline Red OM  
Waxoline Red OS  
2',3-Dimethyl-4-(2-hydroxynaphthylazo)azobenzene  
Oil red 4B  
Lipid crimson  
Scarlet R  
«alpha»-Tolylazo-o-tolylazo-«beta»-naphthol  
o-Tolueneazo-o-tolueneazo-«beta»-naphthol  
o-Tolylazo-o-tolylazo-«beta»-naphthol  
o-Tolylazo-o-tolylazo-2-naphthol  
Biebrich Scarlet R, medicinal  
C.I. 258  
Calco Oil Red D  
Cerotine Ponceau 3B  
Oil Red IV

Oil Red PEL  
 Phenoplaste Organol Red B  
 Resoform Red G  
 Rubrum scarlatinum  
 Scarlet R, michaelis  
 Scharlachrot  
 Schultz No. 541  
 Sudan Red \_BA  
 Waxakol Red BL  
 1-((2-Methyl-4-((2-methylphenyl)azo)phenyl)azo)-2-naphthalenol  
 1-(4-(o-Tolylazo)-o-tolylazo)-2-naphthol  
 2-Naphthol, 1-((4-(o-tolylazo)-o-tolyl)azo)-  
 Cerven rozpoustedlova 24  
 Sarlach R  
 Sudan red 4BA  
 Oil Red  
 Scarlet red scharlach  
 Solvent red 24  
 o-Tolueneazo-o-toluene-«beta»-naphthol  
 2-Naphthalenol, 1-[2-[2-methyl-4-[2-(2-methylphenyl)diazenyl]phenyl]diazenyl]-  
 Permalex Red 2B  
 1-(2'-Methyl-4'-(2"-methylphenylazo)phenylazo)-2-naphthol  
 Atlasol Red 4B  
 O-tolylazo-o-tolylazo-beta-naphthol  
 1-(2-methyl-4-(2-methylphenylazo)phenylazo)-2-naphthol  
**Inchi:** InChI=1S/C24H20N4O/c1-16-7-3-6-10-21(16)26-25-19-12-13-22(17(2)15-19)27-28-24-20  
**InchiKey:** RCTGMCJBQGBLKT-UHFFFAOYSA-N  
**Formula:** C24H20N4O  
**SMILES:** Cc1cccc1N=Nc1ccc(N=Nc2c(O)ccc3ccccc23)c(C)c1  
**Mol. weight [g/mol]:** 380.44  
**CAS:** 85-83-6

## Physical Properties

Property code	Value	Unit	Source
hf	233.22	kJ/mol	Joback Method
hvap	106.49	kJ/mol	Joback Method
log10ws	-7.86		Crippen Method
logp	7.993		Crippen Method
mcvol	295.470	ml/mol	McGowan Method

pc	1352.64	kPa	Joback Method
tb	1246.48	K	Joback Method
tc	1542.37	K	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C85836&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C85836&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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