

2-Naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-

Other names:

C.I. Pigment Red 3
Accosperse Toluidine Red XL
ADC Toluidine Red B
Basoflex Red 361
C.I. 12120
C.P.Toluidine Toner A-2989
C.P.Toluidine Toner A-2990
C.P.Toluidine Toner Dark RS-3340
C.P.Toluidine Toner Deep X-1865
C.P.Toluidine Toner Light RS-3140
C.P.Toluidine Toner RT-6101
C.P.Toluidine Toner RT-6104
Calcotone Toluidine Red YP
Carnelio Helio Red
Chromatex Red J
D and C Red No. 35
Dainichi Permanent Red 4 R
Deep Fastona Red
Duplex Toluidine Red L 20-3140
Eljon Fast Scarlet PV Extra
Eljon Fast Scarlet RN
Enialit Light Red RL
Fast Red A (pigment)
Fast Red A
Fast Red AB
Fast Red J
Fast Red JE
Fast Red R
Fastona Red B
Fastona Scarlet RL
Fastona Scarlet YS
Graphtol Red A-4RL
Hansa Red B
Hansa Red G
Hansa Scarlet RB
Hansa Scarlet RN
Hansa Scarlet RNC
Helio Fast Red BN
Helio Fast Red RL
Helio Fast Red RN

Helio Red RL
Helio Red Toner
Hispalit Fast Scarlet RN
Independence Red
Irgalite Fast Red P 4R
Irgalite Fast Scarlet RND
Irgalite Red PV 2
Irgalite Red RNPX
Irgalite Scarlet RB
Isol Fast Red HB
Isol Fast Red RNB
Isol Fast Red RNG
Isol Fast Red RN 2B
Isol Fast Red RN 2G
Isol Toluidine Red HB
Isol Toluidine Red RNB
Isol Toluidine Red RNG
Isol Toluidine Red RN 2B
Isol Toluidine Red RN 2G
Kromon Helio Fast Red
Kromon Helio Fast Red YS
Lake Red 4R
Lake Red 4RII
Lithol Fast Scarlet RN
Lutetia Fast Red 3R
Lutetia Fast Scarlet RF
Lutetia Fast Scarlet RJN
Monolite Fast Scarlet CA
Monolite Fast Scarlet GSA
Monolite Fast Scarlet RB
Monolite Fast Scarlet RBA
Monolite Fast Scarlet RN
Monolite Fast Scarlet RNA
Monolite Fast Scarlet RNV
Monolite Fast Scarlet RT
No. 2 Forthfast Scarlet
Oralith Red P4R
Permanent Red 4R
Pigment Red RL
Pigment Red 3
Pigment Ruby
Pigment Scarlet
Pigment Scarlet B

Pigment Scarlet N
Pigment Scarlet R
Polymo Red FGN
Recolite Fast Red RBL
Recolite Fast Red RL
Recolite Fast Red RYL
Sanyo Scarlet Pure
Sanyo Scarlet Pure No. 1000
Scarlet Pigment RN
Segnale Light Red B
Segnale Light Red BR
Segnale Light Red C 4R
Segnale Light Red RL
Segnale Light Red 2B
Siegle Red B
Siegle Red BB
Siegle Red 1
Silogomma Red RLL
Silosol Red RBN
Silosol Red RN
Siloton Red BRLL
Siloton Red RLL
Symuler Fast Scarlet 4R
Syton Fast Scarlet RB
Syton Fast Scarlet RD
Syton Fast Scarlet RN
Tertropigment Red HAB
Tertropigment Scarlet LRN
Toluidine red
Toluidine Red BFB
Toluidine Red BFGG
Toluidine Red D 28-3930
Toluidine Red Light
Toluidine Red M 20-3785
Toluidine Red R
Toluidine Red RT-115
Toluidine Red Toner
Toluidine Red XL 20-3050
Toluidine Red 10451
Toluidine Red 3B
Toluidine Red 4R
Toluidine Toner
Toluidine Toner Dark 5040

Toluidine Toner HR X-2700
 Toluidine Toner HR X-2741
 Toluidine Toner Keep HR X-2742
 Toluidine Toner L20-3300
 Toluidine Toner RT-252
 Versal Scarlet PRNL
 Versal Scarlet RNL
 Vulcafor Scarlet A
 1-(o-Nitro-p-tolylazo)-2-naphthol
 1-(4-Methyl-2-nitrophenylazo)-2-naphthol
 Cerven pigment 3
 NCI-C60366
 Toluidine toner 4R X-2700
 Toluidine Red B
 2-Naphthalenol, 1-[2-(4-methyl-2-nitrophenyl)diazenyl]-
 2-Nitro-p-toluidine-2-naphthol
 1-[(2-Nitro-4-methylphenyl)azo]-2-naphthol
Inchi: InChI=1S/C17H13N3O3/c1-11-6-8-14(15(10-11)20(22)23)18-19-17-13-5-3-2-4-12(13)7-9
InchiKey: ZLFVRXUOSPRRKQ-UHFFFAOYSA-N
Formula: C17H13N3O3
SMILES: Cc1ccc(N=Nc2c(O)ccc3ccccc23)c([N+](=O)[O-])c1
Mol. weight [g/mol]: 307.30
CAS: 2425-85-6

Physical Properties

Property code	Value	Unit	Source
hf	94.66	kJ/mol	Joback Method
hvap	97.89	kJ/mol	Joback Method
log10ws	-5.99		Crippen Method
logp	5.177		Crippen Method
mcvol	222.360	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
tb	1057.30	K	Joback Method
tc	1345.34	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2425856&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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