«alpha»-Naphthyl red

Other names: 1-Naphthalenamine, 4-(phenylazo)-
C.I. Solvent Yellow 4
C.I. 11350
Naphthalene, 1-phenylazo-4-amino-
Nubian Yellow TB
Phenylazo-«alpha»-naphthylamine
1-Naphthylamine, 4-(phenylazo)-
4-(Phenylazo)-1-naphthylamine
4-Benzene-azo-«alpha»-naphthylamine
4-Benzeneazo-1-naphthylamine
1-Amino-4-phenylazonaphthalene
1-Naphthalenamine, 4-(2-phenyldiazenyl)-
NSC 13974

Inchi: InChI=1S/C16H13N3/c17-15-10-11-16(14-9-5-4-8-13(14)15)19-18-12-6-2-1-3-7-12/h1-11

InchiKey: IICHURGZQPGTRD-UHFFFAOYSA-N

Formula: C16H13N3

SMILES: Nc1ccc(N=Nc2ccccc2)c2ccccc12

Mol. weight [g/mol]: 247.29

CAS: 131-22-6

Physical Properties

Property code	Value	Unit	Source
hf	348.63	kJ/mol	Joback Method
hvap	76.04	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	4.837		Crippen Method
mcvol	194.960	ml/mol	McGowan Method
pc	2306.95	kPa	Joback Method
tb	869.51	K	Joback Method
tc	1149.33	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C131226&Units=SI

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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