p-Phenylazoresorcinol

Other names:

1,3-Benzenediol, 4-(2-phenyldiazenyl)-
1,3-Benzenediol, 4-(phenylazo)-
1504 Yellow
2,4-Dibenzeneazoresorcinol
2,4-Dihydroxyazobenzene
4-Phenylazoresorcinol
Benzeneazoresorcinol
C.I. 11920
C.I. Food Orange 3
C.I. Solvent Orange 1
Ceres Orange G
Ceres orange GN
Cerisol Yellow GR
Fast Oil Orange T
Fast Oil Yellow 2G
Fast Oil Yellow G
Fat Orange A
Fat Orange G
Fat Orange GS
Fat Orange RG
Fat Victoria Yellow D
Grasol Yellow RSF
Hexacol Oil Yellow GG
Lacquer Orange V 3G
NSC 7949
Oil Orange 4G
Oil Orange G
Oil Orange MO
Oil Orange MON
Oil Orange MON Extra
Oil Yellow G Extra
Oil Yellow GG
Oil-sol. Yellow Zh
Oranz potravinarska 3
Oranz rozpoustedlova 1
Organol Orange 2J
Plastoresin Orange F 3A
Resinol Orange G
Resorcinol, 4-(phenylazo)-
Solvent Orange 1

	Sudan G
	Sudan Orange G
	Sudan Yellow AR
	Tertrogras Orange SG
	Yellow M Soluble in Grease
Inchi:	InChI=1S/C12H10N2O2/c15-10-6-7-11(12(16)8-10)14-13-9-4-2-1-3-5-9/h1-8,15-16H
InchiKey:	BPTKLSBRRJFNHJ-UHFFFAOYSA-N
Formula:	C12H10N2O2
SMILES:	Oc1ccc(N=Nc2ccccc2)c(O)c1
Mol. weight [g/mol]:	214.22
CAS:	2051-85-6

Physical Properties

Property code	Value	Unit	Source
hf	-125.35	kJ/mol	Joback Method
hvap	79.56	kJ/mol	Joback Method
log10ws	-3.08		Aqueous Solubility Prediction Method
logp	3.513		Crippen Method
mcvol	159.820	ml/mol	McGowan Method
pc	3577.07	kPa	Joback Method
tb	837.76	K	Joback Method
tc	1118.74	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2051856&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

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