

Benzenamine, 2-methyl-4-[(2-methylphenyl)azo]-

Other names:

2',3-Dimethyl-4-aminoazobenzene
2-Amino-5-azotoluene
2-Methyl-4((2-methylphenyl)azo)benzenamine
2-Methyl-4-[(o-tolyl)azo]aniline
2-methyl-4-(2-methylphenyl)diazenylaniline
4'-Amino-2,3'-azotoluene
4'-Amino-2,3'-dimethylazobenzene
4'-Amino-2:3'-azotoluene
4-(o-Tolylazo)-o-toluidine
4-Amino-2',3-dimethylazobenzene
4-Amino-3,2'-dimethylazobenzene
5-(o-Tolylazo)-2-aminotoluene
Benzenamine, 2-methyl-4-[2-(2-methylphenyl)diazenyl]-
Brasilazina Oil Yellow R
Butter Yellow
C.I. 11160
C.I. 11160B
C.I. Solvent Yellow 3
Fast Garnet GBC base
Fast Oil Yellow
Fast Yellow AT
Fat Yellow B
Hidaco Oil Yellow
OAAT
Oil Yellow 21
Oil Yellow 2681
Oil Yellow 2R
Oil Yellow AT
Oil Yellow C
Oil Yellow I
Organol Yellow 2T
Orthoaminoazotoluene
Somalia Yellow R
Sudan Yellow RRA
Toluazotoluidine
Tulabase Fast Garnet GB
Tulabase Fast Garnet GBC
Waxakol Yellow NL
Zlut rozpoustedlova 3
o-AT

o-Aato-amidoazotoluol
o-Amidoazotoluol
o-Aminoazotoluene
o-Aminoazotolueno
o-Aminoazotoluol
o-Tolueneazo-o-toluidine
o-Toluidine, 4-(o-tolylazo)-
o-Toluol-azo-o-toluidin

Inchi: InChI=1S/C14H15N3/c1-10-5-3-4-6-14(10)17-16-12-7-8-13(15)11(2)9-12/h3-9H,15H2,1-
InchiKey: PFRYFZZSECNQOL-UHFFFAOYSA-N
Formula: C14H15N3
SMILES: Cc1cc(N=Nc2ccccc2C)ccc1N
Mol. weight [g/mol]: 225.29
CAS: 97-56-3

Physical Properties

Property code	Value	Unit	Source
hf	187.37	kJ/mol	Joback Method
hvap	70.61	kJ/mol	Joback Method
log10ws	-4.05		Aqueous Solubility Prediction Method
logp	4.301		Crippen Method
mcvol	186.240	ml/mol	McGowan Method
pc	2163.33	kPa	Joback Method
tb	809.75	K	Joback Method
tc	1073.57	K	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C97563&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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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