

Methyl red

Other names:	Benzoic acid, 2-[[4-(dimethylamino)phenyl]azo]- Methyl red, CI 13020 o-((p-(Dimethylamino)phenyl)azo)benzoic acid o-Methyl red p-(Dimethylamino)azobenzene-o-carboxylic acid Benzoic acid, o-((p-(dimethylamino)phenyl)azo)- C.I. Acid Red 2 C.I. 13020 2-((4-Dimethylamino)phenylazo)benzoic acid 2-Carboxy-4'-(dimethylamino)azobenzene 4-Dimethylamino-2'-carboxylazobenzene 4'-(Dimethylamino)azobenzene-2-carboxylic acid Cerven kyselá 2 Cerven methylová 2-[(p-Dimethylamino)phenyl]azobenzoic acid NSC 215212
Inchi:	InChI=1S/C15H15N3O2/c1-18(2)12-9-7-11(8-10-12)16-17-14-6-4-3-5-13(14)15(19)20/h3
InchiKey:	CEQFOVLGLXCDCX-UHFFFAOYSA-N
Formula:	C15H15N3O2
SMILES:	CN(C)c1ccc(N=Nc2ccccc2C(=O)O)cc1
Mol. weight [g/mol]:	269.30
CAS:	493-52-7

Physical Properties

Property code	Value	Unit	Source
hf	-52.87	kJ/mol	Joback Method
hvap	87.00	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.866		Crippen Method
mcvol	207.770	ml/mol	McGowan Method
pc	2193.84	kPa	Joback Method
tb	913.61	K	Joback Method
tc	1150.85	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C493527&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

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

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