

P-phenylazo carbanilic acid, ethyl ester

Inchi:	InChI=1S/C15H15N3O2/c1-2-20-15(19)16-12-8-10-14(11-9-12)18-17-13-6-4-3-5-7-13/h3
InchiKey:	MEKVKTVRSAZYFR-ISLYRVAYSA-N
Formula:	C15H15N3O2
SMILES:	CCOC(=O)Nc1ccc(N=Nc2ccccc2)cc1
Mol. weight [g/mol]:	269.30
CAS:	6275-71-4

Physical Properties

Property code	Value	Unit	Source
hf	-35.45	kJ/mol	Joback Method
hvap	76.46	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	4.670		Crippen Method
mcvol	207.770	ml/mol	McGowan Method
pc	2040.07	kPa	Joback Method
tb	876.60	K	Joback Method
tc	1127.02	K	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6275714&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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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