Propyl red

Other names: 2-(4-dipropylaminophenylazo)benzoic acid
Inchi: InChI=1S/C19H23N3O2/c1-3-13-22(14-4-2)16-11-9-15(10-12-16)20-21-18-8-6-5-7-17(18
InchiKey: LIIDWKDFORMMDQ-QZQOTICOSA-N
Formula: C19H23N3O2
SMILES: CCCN(CCC)c1ccc(N=Nc2ccccc2C(=O)O)cc1
Mol. weight [g/mol]: 325.40
CAS: 2641-01-2

Physical Properties

Property code	Value	Unit	Source
hf	-135.43	kJ/mol	Joback Method
hvap	95.90	kJ/mol	Joback Method
log10ws	-5.16		Crippen Method
logp	5.427		Crippen Method
mcvol	264.130	ml/mol	McGowan Method
pc	1575.95	kPa	Joback Method
tb	1005.13	K	Joback Method
tc	1239.30	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2641012&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