

9,10-Anthracenedione, 1,2,5,8-tetrahydroxy-

Other names:	Anthraquinone, 1,2,5,8-tetrahydroxy- Alizarinbordeaux Alizarine Bordeaux Alizarine Bordeaux B C.I. Mordant Violet 26 C.I. 58500 Khinalizarin Quinalizarin Quinalizarine 1,2,5,8-Tetrahydroxy-9,10-anthraquinone 1,2,5,8-Tetrahydroxyanthraquinone Alizarin Bordeaux BD 1,2,5,8-Tetrahydroxyanthracinon 1,4,5,6-Tetrahydroxyanthraquinone NSC 144046
Inchi:	InChI=1S/C14H8O6/c15-6-3-4-7(16)11-10(6)12(18)5-1-2-8(17)13(19)9(5)14(11)20/h1-4,12,14,15,17,18
InchiKey:	VBHKTXLEJZIDJF-UHFFFAOYSA-N
Formula:	C14H8O6
SMILES:	O=C1c2ccc(O)c(O)c2C(=O)c2c(O)ccc(O)c21
Mol. weight [g/mol]:	272.21
CAS:	81-61-8

Physical Properties

Property code	Value	Unit	Source
gf	-510.54	kJ/mol	Joback Method
hf	-767.51	kJ/mol	Joback Method
hfus	40.64	kJ/mol	Joback Method
hvap	113.23	kJ/mol	Joback Method
log10ws	-1.83		Crippen Method
logp	1.284		Crippen Method
mcvol	176.360	ml/mol	McGowan Method
pc	7887.21	kPa	Joback Method
tb	1048.30	K	Joback Method
tc	1337.97	K	Joback Method
tf	934.44	K	Joback Method
vc	0.448	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.79	J/mol×K	1048.30	Joback Method
cpg	593.84	J/mol×K	1096.58	Joback Method
cpg	615.29	J/mol×K	1144.86	Joback Method
cpg	639.57	J/mol×K	1193.14	Joback Method
cpg	667.09	J/mol×K	1241.41	Joback Method
cpg	698.26	J/mol×K	1289.69	Joback Method
cpg	733.52	J/mol×K	1337.97	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C81618&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion 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
tf:	Normal melting (fusion) point
vc:	Critical Volume

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