

9,10-Anthracenedione, 1-amino-4-hydroxy-2-methoxy-

Other names: Anthraquinone, 1-amino-4-hydroxy-2-methoxy-

Acetoquinone Light Pink RLZ

Artisil Brilliant Pink RFS

C.I. Disperse Red 4

C.I. 60755

Celliton Fast Pink RF

Celliton Fast Pink RFA-CF

Cilla Fast Pink RF

Dianix Fast Pink R

Disperse Pink Zh

Disperse Red-4

Disperse Rose Zh

Esteroquinone Light Pink RLL

Fenacet Fast Pink RF

Interchem Acetate Fast Pink DNA

Miketon Fast Pink RL

Miketon Polyester Pink RL

Nyloquinone Pink B

Palanil Pink RF

Perliten Brilliant Pink R

Samaron Pink RFL

Supracet Fast Pink 2R

1-Amino-4-hydroxy-2-methoxy-9,10-anthracenedione

1-Amino-2-methoxy-4-oxyanthraquinone

1-Amino-4-hydroxy-2-methoxyanthraquinone

1a-2Mo-4oa

Cerven disperzni 4

NSC 81265

Inchi: InChI=1S/C15H11NO4/c1-20-10-6-9(17)11-12(13(10)16)15(19)8-5-3-2-4-7(8)14(11)18/h

InchiKey: WSPPHHAIMCTKNN-UHFFFAOYSA-N

Formula: C15H11NO4

SMILES: COc1cc(O)c2c(c1N)C(=O)c1cccc1C2=O

Mol. weight [g/mol]: 269.25

CAS: 2379-90-0

Physical Properties

Property code

Value

Unit

Source

gf	-96.07	kJ/mol	Joback Method
hf	-377.59	kJ/mol	Joback Method
hfus	31.48	kJ/mol	Joback Method
hvap	90.79	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	1.758		Crippen Method
mcvol	188.690	ml/mol	McGowan Method
pc	3633.35	kPa	Joback Method
tb	934.23	K	Joback Method
tc	1206.05	K	Joback Method
tf	741.08	K	Joback Method
vc	0.652	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.01	J/mol×K	934.23	Joback Method
cpg	585.51	J/mol×K	979.53	Joback Method
cpg	596.19	J/mol×K	1024.84	Joback Method
cpg	606.13	J/mol×K	1070.14	Joback Method
cpg	615.40	J/mol×K	1115.45	Joback Method
cpg	624.09	J/mol×K	1160.75	Joback Method
cpg	632.28	J/mol×K	1206.05	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=C2379900&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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