1-Amino-4-hydroxy-2-phenoxy-9,10-anthraquinine

Other names:	1-Amino-4-hydroxy-2-phenoxyanthraquinone
	Anthraquinone, 1-amino-4-hydroxy-2-phenoxy-
	Cerven brilantni ostacetova F-LB
	Cerven disperzni 60
	C.I. Disperse red 60
	C.I. Disperse red 71
	C.I. Disperse red 83
	Disperse polyester pink 2S
	Disperse red 60
	Dispersol red B 2B
	Duranol brilliant red T 2B
	Foron brilliant red E 2BL
	Hostatherm pink FBL
	Latyl cerise N
	Miketon polyester red FB
	Ostacet brilliant red E-LB
	Palanil red bf
	Resiren red tb
	Resolin red fb
	Resolin red fbe
	Resorin red fbe
	Samaron pink FBL
	Serilene brilliant red 2BL
	Serilene red 2BL
	Sumikaron red E-FBL
	Teraprint
	Tersetile rubine FL
	Transetile Rubine P-FL
	1-Amino-4-hydroxy-2-phenoxyanthra-9,10-quinone
	1-Amino-4-hydroxy-2-phenoxy-9,10-anthraquinine
	1-Amino-4-hydroxy-2-phenoxy-9,10-anthraquinine (Disperse Red 60)
Inchi:	InChI=1S/C20H13NO4/c21-18-15(25-11-6-2-1-3-7-11)10-14(22)16-17(18)20(24)13-9-5-4
InchiKey:	MHXFWEJMQVIWDH-UHFFFAOYSA-N
Formula:	C20H13NO4
SMILES:	Nc1c(Oc2ccccc2)cc(O)c2c1C(=O)c1ccccc1C2=O
Mol. weight [g/mol]:	331.33

Physical Properties

Property code	Value	Unit	Source
hf	-265.42	kJ/mol	Cheméo Relay (1.0)
hfus	38.48	kJ/mol	Joback Method
ie	7.53	eV	Cheméo Relay (1.0)
logp	3.542		Crippen Method
mcvol	235.380	ml/mol	McGowan Method
tf	519.42	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	749.78	J/mol×K	1075.31	Joback Method
cpg	761.25	J/mol×K	1122.99	Joback Method
cpg	772.00	J/mol×K	1170.68	Joback Method
cpg	782.19	J/mol×K	1218.36	Joback Method
cpg	791.97	J/mol×K	1266.05	Joback Method
cpg	801.47	J/mol×K	1313.73	Joback Method
cpg	810.84	J/mol×K	1361.42	Joback Method
hfust	30.79	kJ/mol	458.20	NIST Webbook
hsubt	152.50	kJ/mol	362.50	NIST Webbook
hsubt	103.80	kJ/mol	413.00	NIST Webbook

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C17418585&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point