1H-Pyrrole-2,5-dione, 3-ethenyl-4-methyl-

Other names: Maleimide, 2-methyl-3-vinyl-
Methylvinylmaleimide
2-Methyl-2-vinylmaleimide
3-Methyl-4-vinyl-1H-pyrrole-2,5-dione
Inchi: InChI=1S/C7H7NO2/c1-3-5-4(2)6(9)8-7(5)10/h3H,1H2,2H3,(H,8,9,10)
InchiKey: LMEHYWBHZXZJNJ-UHFFFAOYSA-N
Formula: C7H7NO2
SMILES: C=CC1=C(C)C(O)=NC1=O
Mol. weight [g/mol]: 137.14
CAS: 21494-57-5

Physical Properties

Property code	Value	Unit	Source
gf	28.56	kJ/mol	Joback Method
hf	-119.37	kJ/mol	Joback Method
hfus	15.48	kJ/mol	Joback Method
hvap	60.78	kJ/mol	Joback Method
log10ws	-1.11		Crippen Method
logp	0.986		Crippen Method
mcvol	103.150	ml/mol	McGowan Method
pc	4565.38	kPa	Joback Method
rinpol	1261.30		NIST Webbook
rinpol	1261.30		NIST Webbook
tb	603.15	K	Joback Method
tc	823.38	K	Joback Method
tf	421.69	K	Joback Method
vc	0.398	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.65	J/mol×K	603.15	Joback Method
cpg	261.63	J/mol×K	639.85	Joback Method
cpg	271.11	J/mol×K	676.56	Joback Method

cpg	280.05	J/mol×K	713.26	Joback Method
cpg	288.45	J/mol×K	749.97	Joback Method
cpg	296.27	J/mol×K	786.67	Joback Method
cpg	303.50	J/mol×K	823.38	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=C21494575&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume