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

Other names:	Maleimide, 2-ethyl-3-methyl-
	Ethylmethylmaleimide
	Methylethylmaleimide
	2-Ethyl-3-methylmaleimide
	3-Ethyl-4-methyl-1H-pyrrole-2,5-dione
	3-Ethyl-4-methyl-2,5-pyrrolidine-dione
	3-ethyl-4-methylmaleimide
Inchi:	InChI=1S/C7H9NO2/c1-3-5-4(2)6(9)8-7(5)10/h3H2,1-2H3,(H,8,9,10)
InchiKey:	CUBICSJJYOPOIA-UHFFFAOYSA-N
Formula:	C7H9NO2
SMILES:	CCC1=C(C)C(=O)NC1=O
Mol. weight [g/mol]:	139.15
CAS:	20189-42-8

Physical Properties

Property code	Value	Unit	Source
gf	-94.45	kJ/mol	Joback Method
hf	-309.74	kJ/mol	Joback Method
hfus	15.80	kJ/mol	Joback Method
hvap	48.61	kJ/mol	Joback Method
log10ws	-1.24		Crippen Method
logp	0.369		Crippen Method
mcvol	107.450	ml/mol	McGowan Method
pc	4026.13	kPa	Joback Method
rinpol	1238.00		NIST Webbook
rinpol	1239.00		NIST Webbook
rinpol	1265.00		NIST Webbook
rinpol	1238.00		NIST Webbook
rinpol	1280.60		NIST Webbook
rinpol	1265.00		NIST Webbook
rinpol	1234.80		NIST Webbook
rinpol	1192.00		NIST Webbook
ripol	2244.00		NIST Webbook
ripol	2244.00		NIST Webbook
ripol	2260.00		NIST Webbook
ripol	2260.00		NIST Webbook
ripol	2197.00		NIST Webbook

tb	572.82	K	Joback Method
tc	814.55	K	Joback Method
tf	451.06	K	Joback Method
vc	0.406	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.38	J/mol×K	572.82	Joback Method
cpg	261.98	J/mol×K	613.11	Joback Method
cpg	274.10	J/mol×K	653.40	Joback Method
cpg	285.68	J/mol×K	693.68	Joback Method
cpg	296.65	J/mol×K	733.97	Joback Method
cpg	306.95	J/mol×K	774.26	Joback Method
cpg	316.51	J/mol×K	814.55	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C20189428&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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume