

(Dispiro[tetracyclo[3.2.0.0^{2,7}.0⁰

Other names:	(Dispiro[tetracyclo[3.2.0.0
Inchi:	InChI=1S/C15H14/c1-14(10-2-3(10)5-4(2)11(5)14)15(1)12-6-7(12)9-8(6)13(9)15/h2-13H,
InchiKey:	QGGHADUOSDKJIR-UHFFFAOYSA-N
Formula:	C15H14
SMILES:	C1C2(C3C4C3C3C4C32)C12C1C3C1C1C3C12
Mol. weight [g/mol]:	194.27
CAS:	73050-58-5

Physical Properties

Property code	Value	Unit	Source
gf	717.84	kJ/mol	Joback Method
hf	304.97	kJ/mol	Joback Method
hfus	35.78	kJ/mol	Joback Method
hvap	42.29	kJ/mol	Joback Method
ie	7.60	eV	NIST Webbook
log10ws	-1.77		Crippen Method
logp	1.866		Crippen Method
mcvol	124.470	ml/mol	McGowan Method
pc	2881.21	kPa	Joback Method
tb	529.15	K	Joback Method
tc	739.17	K	Joback Method
tf	489.11	K	Joback Method
vc	0.576	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.15	J/molxK	529.15	Joback Method
cpg	445.75	J/molxK	564.15	Joback Method
cpg	462.03	J/molxK	599.16	Joback Method
cpg	476.48	J/molxK	634.16	Joback Method
cpg	489.57	J/molxK	669.16	Joback Method
cpg	501.79	J/molxK	704.16	Joback Method
cpg	513.62	J/molxK	739.17	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C73050585&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
ie:	Ionization energy
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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