

Isoshyobunone

Inchi:	InChI=1S/C15H24O/c1-7-15(6)9-8-12(10(2)3)14(16)13(15)11(4)5/h7,10,12H,1,8-9H2,2-6
InchiKey:	YMIHAYABXZORPU-UHFFFAOYSA-N
Formula:	C15H24O
SMILES:	C=CC1(C)CCC(C(C)C)C(=O)C1=C(C)C
Mol. weight [g/mol]:	220.35

Physical Properties

Property code	Value	Unit	Source
gf	86.39	kJ/mol	Joback Method
hf	-255.02	kJ/mol	Joback Method
hfus	14.93	kJ/mol	Joback Method
hvap	52.01	kJ/mol	Joback Method
log10ws	-4.26		Crippen Method
logp	4.150		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	1854.71	kPa	Joback Method
rinpol	1518.00		NIST Webbook
rinpol	1521.00		NIST Webbook
ripol	1880.00		NIST Webbook
tb	628.30	K	Joback Method
tc	851.27	K	Joback Method
tf	333.71	K	Joback Method
vc	0.771	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	552.73	J/molxK	628.30	Joback Method
cpg	574.02	J/molxK	665.46	Joback Method
cpg	594.20	J/molxK	702.62	Joback Method
cpg	613.39	J/molxK	739.79	Joback Method
cpg	631.70	J/molxK	776.95	Joback Method
cpg	649.23	J/molxK	814.11	Joback Method
cpg	666.10	J/molxK	851.27	Joback Method

Sources

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=U360301&Units=SI
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
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
rinpolar:	Non-polar retention indices
ripolar:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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