Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1«alpha»,2«beta»,5«alpha»)-

Other names:	3-Pinanone, cis
	Isocamphopinone
	Isopinocamphon
	Isopinocamphone
	2,6,6-Trimethylbicyclo[3.1.1]heptan-3-one, (1«alpha»,2«beta»,5«alpha»)-
	Pinocamphone, cis-
	cis-Pinocamphone
	cis-pinocamphone (isopinocamphone)
	(1«alpha»,2«beta»,5«alpha»)-2,6,6-trimethylbicyclo[3.1.1]heptan-3-one
Inchi:	InChI=1S/C10H16O/c1-6-8-4-7(5-9(6)11)10(8,2)3/h6-8H,4-5H2,1-3H3
InchiKey:	MQPHVIPKLRXGDJ-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC1C(=O)CC2CC1C2(C)C
Mol. weight [g/mol]:	152.23
CAS:	15358-88-0

Physical Properties

Property code	Value	Unit	Source
gf	-0.78	kJ/mol	Joback Method
hf	-273.43	kJ/mol	Joback Method
hfus	11.18	kJ/mol	Joback Method
hvap	40.33	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.258		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	2832.35	kPa	Joback Method
rinpol	1179.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1174.50		NIST Webbook
rinpol	1155.00		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1173.00		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1171.00		NIST Webbook
rinpol	1173.00		NIST Webbook

rinpol	1175.00	NIST Webbook
rinpol	1171.00	NIST Webbook
rinpol	1173.00	NIST Webbook
rinpol	1172.00	NIST Webbook
rinpol	1176.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1173.00	NIST Webbook
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ripol	1520.00		NIST Webbook
ripol	1553.00		NIST Webbook
ripol	1536.00		NIST Webbook
ripol	1538.00		NIST Webbook
ripol	1530.00		NIST Webbook
tb	504.67	K	Joback Method
tc	727.60	K	Joback Method
tf	318.46	K	Joback Method
vc	0.504	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	324.94	J/mol×K	504.67	Joback Method
cpg	343.76	J/mol×K	541.83	Joback Method
cpg	361.40	J/mol×K	578.98	Joback Method
cpg	377.96	J/mol×K	616.14	Joback Method
cpg	393.57	J/mol×K	653.29	Joback Method
cpg	408.36	J/mol×K	690.45	Joback Method

cpg	422.45	J/mol×K	727.60	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=C15358880&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
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