aristola-1(10)-8 diene

Inchi: InChI=1S/C15H22/c1-10-6-5-7-11-8-9-12-13(14(12,2)3)15(10,11)4/h7-10,12-13H,5-6H2,
InchiKey: UDSKJUQXHRQDLY-PBOSXPJTSA-N
Formula: C15H22
SMILES: CC1CCC=C2C=CC3C(C3(C)C)C21C
Mol. weight [g/mol]: 202.34

Physical Properties

Property code	Value	Unit	Source
gf	257.36	kJ/mol	Joback Method
hf	-52.96	kJ/mol	Joback Method
hfus	16.41	kJ/mol	Joback Method
hvap	47.39	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	4.191		Crippen Method
mcvol	181.030	ml/mol	McGowan Method
pc	2189.73	kPa	Joback Method
rinpol	1426.00		NIST Webbook
ripol	1576.00		NIST Webbook
tb	565.80	K	Joback Method
tc	793.56	K	Joback Method
tf	358.95	K	Joback Method
vc	0.697	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.94	J/mol×K	565.80	Joback Method
cpg	505.80	J/mol×K	603.76	Joback Method
cpg	526.11	J/mol×K	641.72	Joback Method
cpg	545.16	J/mol×K	679.68	Joback Method
cpg	563.26	J/mol×K	717.64	Joback Method
cpg	580.73	J/mol×K	755.60	Joback Method
cpg	597.85	J/mol×K	793.56	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R424016&Units=SI

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

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