CYCLOBUTANE, 1,2-BIS(1-METHYLETHENYL)-, TRANS-

Other names: trans-1,2-bis-(1-methylethenyl)cyclobutane
Inchi: InChI=1S/C10H16/c1-7(2)9-5-6-10(9)8(3)4/h9-10H,1,3,5-6H2,2,4H3/t9-,10-/m0/s1
InchiKey: RQGIFUXHHWOXNT-NXEZZACHSA-N
Formula: C10H16
SMILES: C=C(C)[C@@H]1CC[C@H]1C(=C)C
Mol. weight [g/mol]: 136.24

Physical Properties

Property code	Value	Unit	Source
hf	70.69	kJ/mol	Cheméo Relay (1.0)
hfus	13.58	kJ/mol	Joback Method
ie	8.82	eV	Cheméo Relay (1.0)
logp	3.165		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
ripol	1238.00		NIST Webbook
tb	439.22	K	Cheméo Relay (1.0)
tf	232.99	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.48	J/mol×K	427.66	Joback Method
cpg	284.81	J/mol×K	460.53	Joback Method
cpg	301.22	J/mol×K	493.40	Joback Method
cpg	316.74	J/mol×K	526.27	Joback Method
cpg	331.40	J/mol×K	559.14	Joback Method
cpg	345.26	J/mol×K	592.01	Joback Method
cpg	358.35	J/mol×K	624.88	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19465022&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point