cis 4,5-dimethyl-1,3-dioxane

Inchi: InChI=1S/C6H12O2/c1-5-3-7-4-8-6(5)2/h5-6H,3-4H2,1-2H3
InchiKey: YMXZGCMNTIZHDC-UHFFFAOYSA-N
Formula: C6H12O2
SMILES: CC1COCOC1C
Mol. weight [g/mol]: 116.16

Physical Properties

Property code	Value	Unit	Source
hf	-400.19	kJ/mol	Cheméo Relay (1.0)
hfus	20.16	kJ/mol	Joback Method
hvap	41.54	kJ/mol	Cheméo Relay (1.0)
logp	1.015		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
tb	405.84	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.64	J/mol×K	405.46	Joback Method
cpg	208.06	J/mol×K	439.58	Joback Method
cpg	221.85	J/mol×K	473.71	Joback Method
cpg	235.02	J/mol×K	507.83	Joback Method
cpg	247.58	J/mol×K	541.95	Joback Method
cpg	259.54	J/mol×K	576.08	Joback Method
cpg	270.89	J/mol×K	610.20	Joback Method
dvisc	0.0052904	Pa×s	213.66	Joback Method
dvisc	0.0025382	Pa×s	245.63	Joback Method
dvisc	0.0014422	Pa×s	277.59	Joback Method
dvisc	0.0009210	Pa×s	309.56	Joback Method
dvisc	0.0006396	Pa×s	341.53	Joback Method
dvisc	0.0004728	Pa×s	373.49	Joback Method
dvisc	0.0003666	Pa×s	405.46	Joback Method
hvapt	48.50	kJ/mol	381.50	NIST Webbook

Sources

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):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2391244&Units=SI
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
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature