1,4-Dioxa-8-azaspiro(4.5)decane

Other names:	Piperidone-4-ethyleneketal
	4-Piperidone ethylene ketal
	1,4-Dioxa-8-azaspiro[4,5]decane
	1,4-dioxa-8-azaspiro[4.5]decane
Inchi:	InChI=1S/C7H13NO2/c1-3-8-4-2-7(1)9-5-6-10-7/h8H,1-6H2
InchiKey:	KPKNTUUIEVXMOH-UHFFFAOYSA-N
Formula:	C7H13NO2
SMILES:	C1CC2(CCN1)OCCO2
Mol. weight [g/mol]:	143.19

Physical Properties

Property code	Value	Unit	Source
hfus	19.93	kJ/mol	Joback Method
hvap	59.31	kJ/mol	Cheméo Relay (1.0)
ie	8.50	eV	Cheméo Relay (1.0)
logp	0.113		Crippen Method
mcvol	109.490	ml/mol	McGowan Method
tf	341.82	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.20	J/mol×K	497.48	Joback Method
cpg	278.66	J/mol×K	538.68	Joback Method
cpg	294.68	J/mol×K	579.88	Joback Method
cpg	309.45	J/mol×K	621.08	Joback Method
cpg	323.15	J/mol×K	662.28	Joback Method
cpg	335.96	J/mol×K	703.48	Joback Method
cpg	348.05	J/mol×K	744.68	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	382.20	K	3.50	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C177117&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
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tbrp: Boiling point at reduced pressure
tf: Normal melting (fusion) point