

2-ethyl-1,3-dioxane

Inchi: InChI=1S/C6H12O2/c1-2-6-7-4-3-5-8-6/h6H,2-5H2,1H3
InchiKey: YYSCEOFBYTXZLD-UHFFFAOYSA-N
Formula: C6H12O2
SMILES: CCC1OCCCO1
Mol. weight [g/mol]: 116.16

Physical Properties

Property code	Value	Unit	Source
gf	-148.15	kJ/mol	Joback Method
hf	-376.85	kJ/mol	Joback Method
hfus	19.09	kJ/mol	Joback Method
hvap	38.40	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	1.159		Crippen Method
mvol	96.280	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
rinpol	824.00		NIST Webbook
rinpol	824.00		NIST Webbook
tb	410.13	K	Joback Method
tc	615.35	K	Joback Method
tf	217.90	K	Joback Method
vc	0.346	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.19	J/molxK	410.13	Joback Method
cpg	257.54	J/molxK	581.15	Joback Method
cpg	245.96	J/molxK	546.95	Joback Method
cpg	233.74	J/molxK	512.74	Joback Method
cpg	220.89	J/molxK	478.54	Joback Method
cpg	207.38	J/molxK	444.33	Joback Method
cpg	268.50	J/molxK	615.35	Joback Method
dvisc	0.0003819	Paxs	410.13	Joback Method

dvisc	0.0005157	Paxs	378.09	Joback Method
dvisc	0.0007362	Paxs	346.05	Joback Method
dvisc	0.0011300	Paxs	314.01	Joback Method
dvisc	0.0019119	Paxs	281.98	Joback Method
dvisc	0.0037017	Paxs	249.94	Joback Method
dvisc	0.0087042	Paxs	217.90	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=R222523&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
dvisc:	Dynamic viscosity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/43-105-7/2-ethyl-1-3-dioxane.pdf>

Generated by Cheméo on 2024-04-17 15:35:48.316939338 +0000 UTC m=+15657397.237516650.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.