

propane, 2,2-diiodo-

| | |
|-----------------------------|-----------------------------------|
| Inchi: | InChI=1S/C3H6I2/c1-3(2,4)5/h1-2H3 |
| InchiKey: | AZUCPFMKPGFGTB-UHFFFAOYSA-N |
| Formula: | C3H6I2 |
| SMILES: | CC(C)(I)I |
| Mol. weight [g/mol]: | 295.89 |
| CAS: | 630-13-7 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 93.46 | kJ/mol | Joback Method |
| hf | 39.74 | kJ/mol | Joback Method |
| hfus | 4.92 | kJ/mol | Joback Method |
| hvap | 39.72 | kJ/mol | Joback Method |
| log10ws | -3.58 | | Crippen Method |
| logp | 2.593 | | Crippen Method |
| mcvol | 104.770 | ml/mol | McGowan Method |
| pc | 4266.28 | kPa | Joback Method |
| tb | 451.09 | K | Joback Method |
| tc | 717.78 | K | Joback Method |
| tf | 242.11 | K | Joback Method |
| vc | 0.368 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 141.02 | J/molxK | 451.09 | Joback Method |
| cpg | 148.24 | J/molxK | 495.54 | Joback Method |
| cpg | 154.62 | J/molxK | 539.99 | Joback Method |
| cpg | 160.26 | J/molxK | 584.44 | Joback Method |
| cpg | 165.24 | J/molxK | 628.88 | Joback Method |
| cpg | 169.67 | J/molxK | 673.33 | Joback Method |
| cpg | 173.63 | J/molxK | 717.78 | Joback Method |
| dvisc | 0.0089822 | Paxs | 242.11 | Joback Method |
| dvisc | 0.0040271 | Paxs | 276.94 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0021599 | Paxs | 311.77 | Joback Method |
| dvisc | 0.0013130 | Paxs | 346.60 | Joback Method |
| dvisc | 0.0008741 | Paxs | 381.43 | Joback Method |
| dvisc | 0.0006229 | Paxs | 416.26 | Joback Method |
| dvisc | 0.0004678 | Paxs | 451.09 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=C630137&Units=SI |

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 |
| 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/107-947-2/propane-2-2-diiodo.pdf>

Generated by Cheméo on 2023-03-27 10:58:47.353847606 +0000 UTC m=+960095.248971625.

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