

Comparisons of Different Ionic Liquids Combined with Trans-1,3,3,3-tetrafluoropropene (R1234ze(E)) as Absorption Working Fluids

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Highlights

- Trans-1,3,3,3-tetrafluoropropene and ionic liquids studied as novel working fluids
- Four ionic liquids are compared for single-effect and compression-assisted cycles
- 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide is the best mostly
- Maximum coefficient of performance of the compression-assisted cycle is 0.431–0.606
- Ionic liquid with higher solubility and lower heat capacity has better performance

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